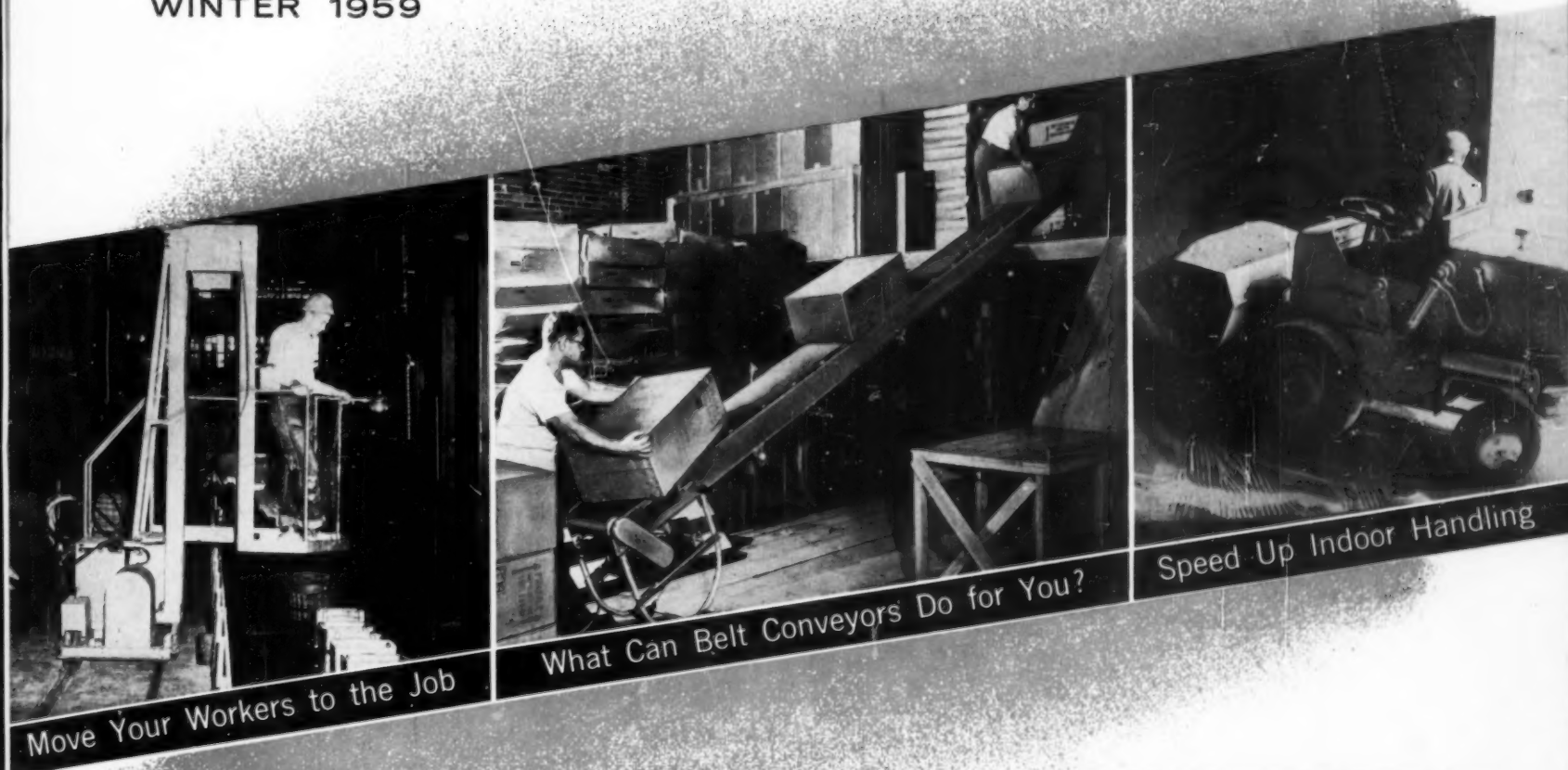


# Material Handling ILLUSTRATED

WINTER 1959



Also: **MORE THAN 200 NEW EQUIPMENT  
AND LITERATURE DESCRIPTIONS**



AN INDUSTRIAL PUBLISHING CORPORATION MAGAZINE

The Mass Circulation Magazine for the Material Handling Market



The FT20-24 climbs a 40% grade loaded!

# NEW Allis-Chalmers 2,000-lb Lift Truck

## ...a Standout Performer!

### LET'S LOOK AT THE FACTS...

**Greater Lugability**—from a rugged heavy-duty industrial engine with full 35 hp, 97 ft-lb of torque.

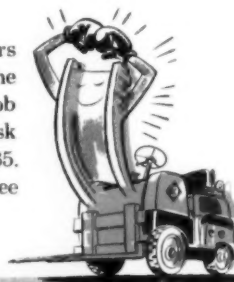
**Climbs a 40-percent ramp loaded.** Power, traction, plus low center of gravity, add up to gradability that can't be matched.

**Greater accessibility**—ready for servicing in 22 seconds... and can be stripped down to the

chassis in 22 minutes. Serviceability like this means many extra hours on the job.

**Proven "Years-Ahead" design**—means more dependable, continuous... economical hours on the job.

Ask your Allis-Chalmers dealer to demonstrate the NEW FT20-24 on your job under your conditions. Ask for the new Bulletin BU-485. Allis-Chalmers, Milwaukee 1, Wisconsin.



"Hefty" the FT 2,000-lb champ saves you more, makes you more.



# ALLIS-CHALMERS

## HANDLING

### Stack-n-Nest Tote Pans

Stack-n-Nest Tote Pans by G. B. Lewis are made in sizes to handle every product. Pan covers are available in colors to match pans and are snug fit to keep out dust and dirt. Dollies, also of molded fiberglass and reinforced polyester, come in matching colors.

Circle No. 42 on Reader Service Card

### Drum Lift Controls Pouring

Controlled pouring of acids, caustics, plastics and viscose materials is promised with the model CP-1 Sterling hydraulics drum lift by the Sterling, Fleischman Co. Self-locking and absolute control at any pouring angle are features. Lifting capacity is 750 pounds, and lifting height 72 inches.

Circle No. 46 on Reader Service Card

### Cut Costs on Truck Battery Upkeep

H-bart Motor Generators... a motor generator designed for the battery it is to charge... is fully automatic. When the required amount of charge is reached it shuts off. There is never any danger of overcharging. Full information is available from Motor Generator Corp.

Circle No. 15 on Reader Service Card

### Coordinated Material Handling

The Rapids-Standard Co., Inc., has available a handbook of material handling ideas. You will walk through 70 actual installations as you leaf through. The use of Rapistan conveyors is stressed, and the company points out how they smooth and speed the flow of goods and protect profits.

Circle No. 11 on Reader Service Card

### Work-O-Matic Box and Stand

Seven features go into the design of the Work-O-Matic Box and Stand for unit load handling and work-level positioning according to the manufacturer, the Union Metal Mfg. Co. They include a drop bottom box, corner stacking angles, hinged chute bottom, work positioning stand, control gate, work-level tray and an inclined tray end.

Circle No. 3 on Reader Service Card

### Electric Hoists

Here's your opportunity to slash lifting and handling costs. Lodestar electric hoist models should be put to work where their increased speeds and capacity match your maximum requirements advises this company. Catalog furnished upon request from Chisholm-Moore Hoist Division.

Circle No. 4 on Reader Service Card

## MATERIAL HANDLING ILLUSTRATED

Circle No. 1 on Reader Service Card

## HIGHLIGHTS

### Air-Powered Hoist Trolley

Bulletin 87-1 may be obtained from the Gardner-Denver Co. an the push-pull hoistractor. This air-powered hoist trolley, connected to any beam hoist by a drawbar, rides the same beam as the hoist. Hoist lifts and lowers and the hoistractor moves hoist and load along the beam.

Circle No. 10 on Reader Service Card

### Big Texite Wheels

Immediately available from Albion Industries, Inc. are texite wheels in diameters from 3 1/4" to 16", tread widths from 1 1/2" to 4" and capacities all the way to 8000 pounds. Plain, roller, or sealed bearings. Albion's 44-page catalog of Industrial Casters and Wheels is ready for your use.

Circle No. 49 on Reader Service Card

### Standard and Custom Built Trucks

Total of 5,000 combinations of models and sizes are offered by the Myers Truck and Caster Co. Illustrated folders may be obtained from the company, or you can send in your specifications on custom jobs.

Circle No. 54 on Reader Service Card

### Hook Scale Permits Swiveling In Any Direction

Four advantages of the Martin-Decker Sensater hook scale make for work without friction and certified accuracy. According to the corporation, they are easy handling, convenience, easy reading and a five-to-one safety factor. The full 360 degree hook rotation permits swiveling in any direction.

Circle No. 37 on Reader Service Card

### Padded Shipping Bag

Comparison tests of the new jiffy bag, made with Clupak outer liner, and shipping bags made of plain kraft, show an increase of tear resistance from 125.7 grams to 232.0 grams. The Jiffy Mfg. Co. asks you to send for free samples

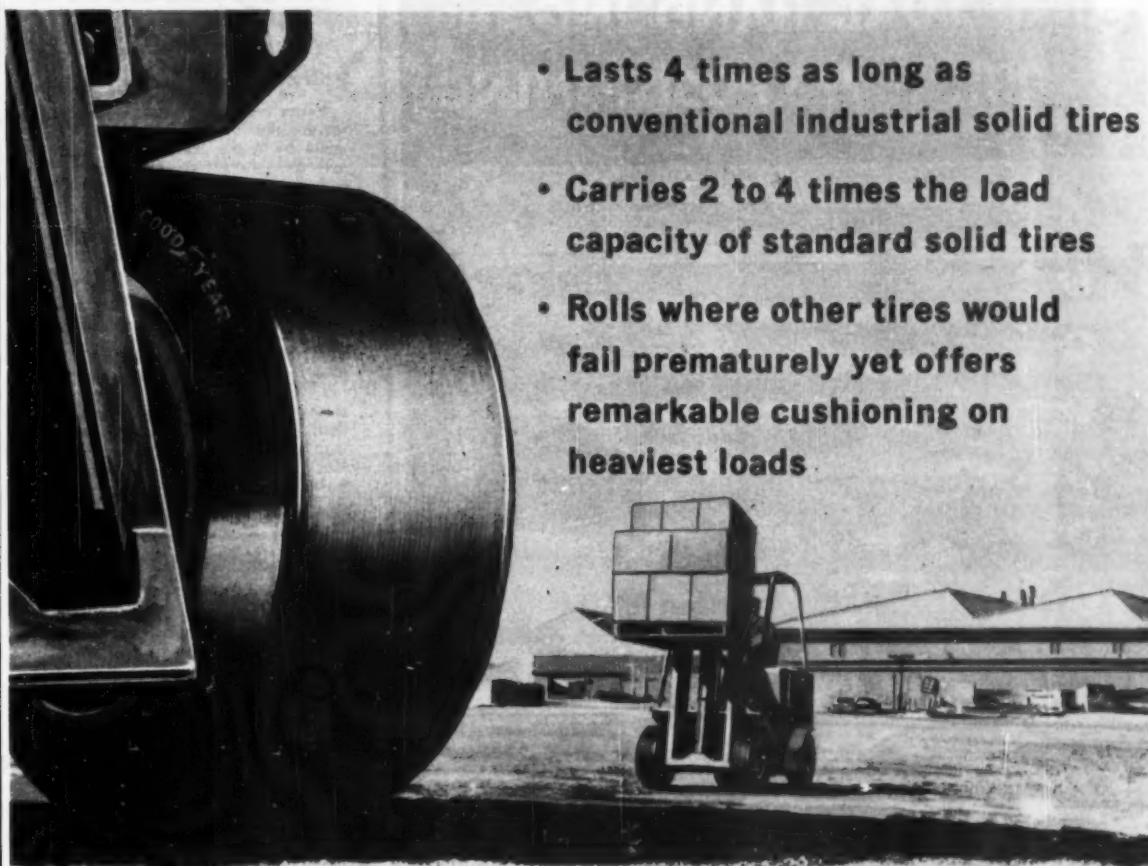
Circle No. 19 on Reader Service Card

### Dock Bumpers Cut Maintenance Costs

Durable Mat Co. advises that truck line terminals do just that, with Durable Dock bumpers. No repairs, no replacements, no truck or freight damage ... with a resulting cost cut in maintenance is promised by this company.

Circle No. 23 on Reader Service Card

Now—from Goodyear—a totally new tire to obsolete all previous measures of industrial tire performance!



- Lasts 4 times as long as conventional industrial solid tires
- Carries 2 to 4 times the load capacity of standard solid tires
- Rolls where other tires would fail prematurely yet offers remarkable cushioning on heaviest loads

## XTRA-SERVICE, "NEOTHANE" SOLIDS XTRA-CAPACITY,

**WHAT IS "NEOTHANE"?** It's a polyurethane synthetic of amazing durability and toughness. So tough that it takes 4 regular tires to last as long as one Xtra-Service!



**WEARS LIKE STEEL.** Shrugs off tire-killing hazards such as metal chips, broken glass, sharp stones. Resists cutting and chipping under most severe scrap conditions.



**HAS THE RESILIENCE OF RUBBER.** "Gives" with the contour of the surface rather than resisting it. Reduces floor maintenance costs. Assures safer, smoother haulage.



FOR MORE INFORMATION, write Goodyear, Industrial Tire Sales, Akron 16, Ohio.

# GOODYEAR

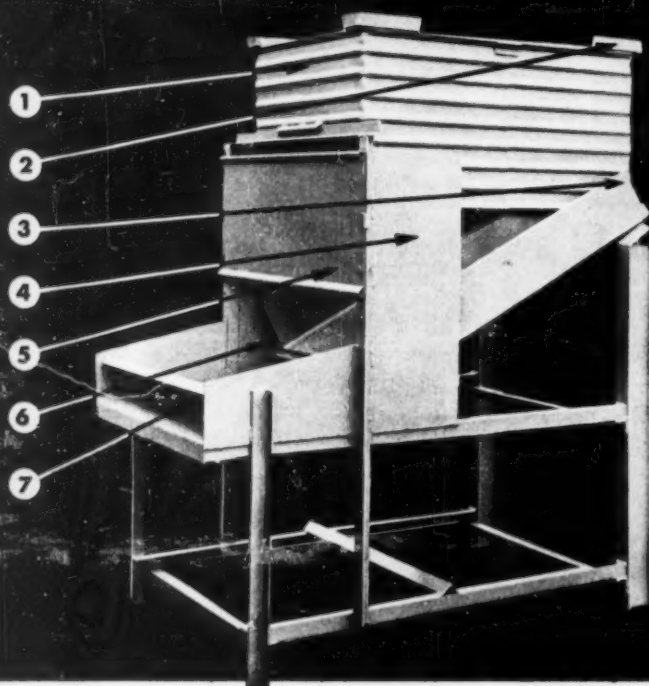
## INDUSTRIAL TIRES

Neothane—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

Circle No. 2 on Reader Service Card

*More tons are hauled on Goodyear Truck Tires than on any other kind*

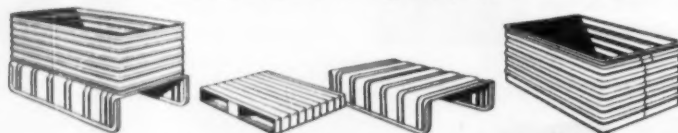
## Work-O-Matic\* Box and Stand for UNIT LOAD HANDLING AND WORK-LEVEL POSITIONING



### Check these 7 Work-O-Matic features

- 1. WORK-O-MATIC DROP BOTTOM BOX.** Heavy gauge corrugated steel construction. Square corners.
- 2. CORNER STACKING ANGLES.** Safe tiering without shifting. Saves floor space.
- 3. HINGED CHUTE BOTTOM.** As forks of truck are lowered, hinged bottom opens and parts slide into tray.
- 4. WORK POSITIONING STAND.** Receives box from back or sides. Safely and easily transported by lift truck.
- 5. CONTROL GATE.** Vertical adjustment controls flow of parts into tray.
- 6. WORK-LEVEL TRAY.** Reservoir feature eliminates work stoppage when changing boxes.
- 7. INCLINED TRAY END.** Assures parts accessibility. Speeds job changes.

In addition, Union Metal offers industry's broadest line of conventional type material handling containers. Write for complete catalog information. Address The Union Metal Manufacturing Company, Canton 5, Ohio.



\*Patent No. 2,445,038

**UNION METAL**  
Material Handling Equipment

Circle No. 3 on Reader Service Card

## HANDLING HIGHLIGHTS

### Fully Powered Steelstrapper

Power tensioning, sealing and cutting feature the A4 pneumatic steelstrapper made by Acme Steel Co. A brochure may be obtained for full details. This tool includes one-hand controls among its many advantages.

Circle No. 13 on Reader Service Card

### Reduce Loading Costs With Magnesium Dockboards

All B&P Magnesium dockboards are heat treated for stress-relief after welding. Extra rugged (because of a one-piece curb with forged ends) and extra light ( $\frac{1}{4}$  the weight of steel,  $\frac{1}{2}$  lighter than aluminum) says the manufacturer. More information can be obtained from Brooks & Perkins, Inc.

Circle No. 51 on Reader Service Card

### Lift Truck Models

The Big Joe Mfg. Co. features three values from among 80 of their lift truck models. This company has hydraulic handling for every department. Full information may be obtained on "the Pedalift 21" (1000 lb. capacity, 54 in. lifting height; "the 299" (1000 lb. capacity 57 in. lifting height; and "the Challenger," (1500 lb. capacity, 57 in. lifting height.)

Circle No. 26 on Reader Service Card

### Fast Unloading... Anywhere

No dock is needed to unload when you carry your own Magcoa Van Ramp made by Magnesium Co. of America. Fabricated of light-weight metal, one man can handle, carry, and position it. An ideal solution for loading and unloading trucks on streets, or wherever dock facilities are limited.

Circle No. 18 on Reader Service Card

### Lower Operating Costs

Judge for yourself. Send for the new Clarklift features booklet. The company promises to lower your costs by giving 30% more efficiency. Automatic transmission, simplified, directional controls, picture-window visibility, and maintenance in minutes are all explained by Clark Equipment Co.

Circle No. 35 on Reader Service Card

### Half-toner Lifter

The Colson Corp. states that 27 pounds of effort will lift loads up to 1000 pounds as high as 64 inches with a radically improved c/u half-toner lifter, with its exclusive winch. Complete safety devices are included.

Circle No. 25 on Reader Service Card

Continued on page 48

**CM**  
**Lodestar**  
electric hoist

now...  
important  
new models



LARGER  
CAPACITY

FASTER  
SPEEDS

GREATER SELECTION...from a complete range of capacities and speeds...1/8 to 2 tons and 8 to 60 fpm.

Here's your opportunity to slash lifting and handling costs. Put these new Lodestars to work where their increased speeds and capacity match your maximum requirements.

### LODESTAR FEATURES INCLUDE:

- Safe, Heavy Duty Performance
- Lowest Headroom
- Push Button Control
- Fully Enclosed Components
- Self-Adjusting Magnetic Brake
- Ultra-Modern Electric Braking
- CM-ALLOY Flexible Link Chain
- Minimum-Maintenance Operation
- Lifetime Lubrication

Request catalog and name of local stocking distributor.

**CHISHOLM-MOORE HOIST DIVISION**  
Columbus McKinnon Chain Corporation  
**TONAWANDA, N. Y.**

**NEW YORK • CHICAGO • CLEVELAND**

*In Canada:*  
McKinnon Columbus Chain Ltd.,  
St. Catharines, Ont.

**CM**  
HOISTS

Circle No. 4 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

# Material Handling ILLUSTRATED

VOL. 8 No. 1

WINTER, 1959



published quarterly by  
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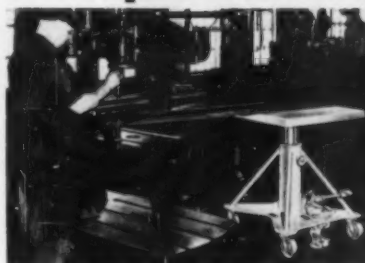
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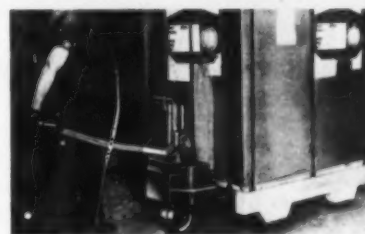
# 6 COST CUTTERS for warehouse and plant...



**PORTABLE HYDRAULIC ELEVATING TABLE** positions work, supports long pieces, simplifies die handling. Telescopic and non-telescopic models. Capacity: 2,000 lbs. Check Coupon Below



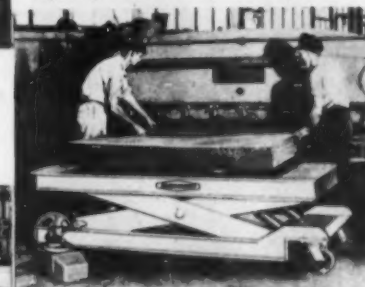
**LIGHTWEIGHT HYDRAULIC PALLET TRUCK** is rugged, maneuverable. Has 270° turning radius, separate lift and lower pedals. Capacity: 2,000 lbs. Check Coupon Below



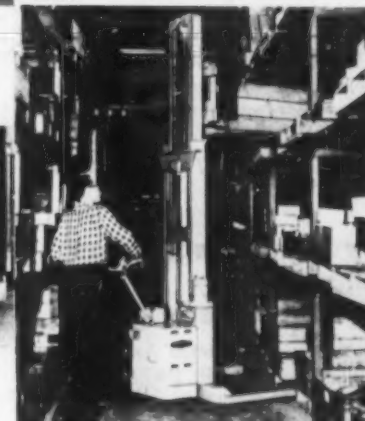
**HYDRAULIC SKID TRUCK** makes load-lifting easy. Has 360° turning radius for close-quarter steering, plus finger-tip lowering. 3 capacities: 2,500; 4,000 or 6,000 lbs. Check Coupon Below



**ELECTRIC PALLET TRUCK** easily maneuvers pallet loads in and out of trucks. 24 volts. Complete with batteries and charger. 4,000 lb. capacity. Check Coupon Below.



**HYDRAULIC SHEET FEEDING TABLE** raises sheets, strips to right working level. Results in easier, safer, faster feeding. Capacities: 2,000 to 30,000 lbs. Check Coupon Below



**ELECTRIC WALKIE STACKER** tiers 2,000 lb. pallet loads 10 ft. high from 6 1/2 ft. aisles. 24 volts. Low price, complete with charger and batteries. Check Coupon.

**RAYMOND**

## The RAYMOND CORPORATION

30180 Madison St., Greene, N. Y.

Send these RAYMOND bulletins to:

- ☐ Portable Elevating Table  
☐ Lightweight Pallet Truck  
☐ Sheet Feeding Table  
☐ Electric Pallet Truck  
☐ Electric Walkie Stackers  
☐ Skid Truck  
☐ Lease rental-deferred payment plan

NAME \_\_\_\_\_ TITLE \_\_\_\_\_  
COMPANY \_\_\_\_\_  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_

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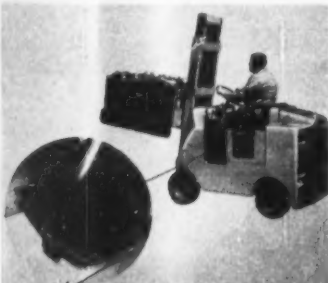
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WINTER 1959

# WHAT'S NEW IN EQUIPMENT

## Announces Pedal-Controlled Power Transmission

A simple heel-to-toe motion controls all forward and reverse movements of trucks equipped with the



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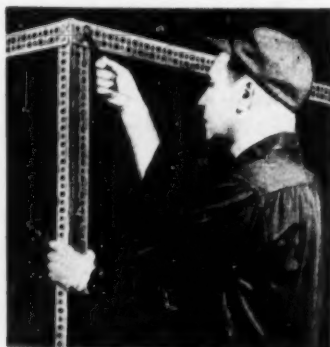
Towmostatic Drive. This method of power transmission is based on the principle of hydrostatics requires no conventional clutch assembly, transmission, drive line, or differential. Two pumps driven by the conventional gasoline engine provide a flow of hydraulic oil under pressure to two positive displacement piston-type motors which in turn furnish power to each of the drive wheels.

Toe pressure moves the lift truck forward and heel pressure actuates reverse travel. Inching is accomplished by the same pedal.

*Towmotor Corp.*

## Framing Angle Has Slot Pattern To Speed Assembly

AIM Brand Slotted Angle is designed to provide the maximum number of structures that can be assembled without welding or drilling and without the need of special tools or skills. According to the manufacturer, this is a versatile framing angle with precision engineered recurring pattern of slots and holes to provide speed and convenience in assembly. The slot-and-hole pattern permits the formation of two types of joints. Friction-type joints are made by bolting through vertical and horizontal slots. Where load factors require maximum joint strength and structural rigidity, lock-joints are formed by bolting



Circle No. 87 on Reader Service Card

through the round holes.

This framing material has such material handling applications as carts, storage racks and tables.

*Fabricated Materials Division,  
Acme Steel Co.*

## Detachable Container Will Handle 40 Cubic Yards

The recently developed Huge Haul consists of a detachable container mounted on a single or tan-



Circle No. 88 on Reader Service Card

dem axle truck. Units are available in sizes from a flat bed to 10, 15, 20, 25, and 30 cu. yd. as standard, and specials available to 40 cu. yd. capacities. A single lever mounted on the dashboard enables the truck driver to pick up, haul, dump, or drop off any number of detachable containers.

*Ingersoll Kalamazoo Div.,  
Borg-Warner Corp.*

## Sweeper Has Power Steering, Rear-Wheel Drive

The Task Master "42" is an industrial power sweeper, features a heavy duty power steering assem-

bly. It has rear wheel drive and pneumatic puncture-sealing tires to cushion the sweeper for rugged outdoor sweeping. The combination of rear wheel drive and power steering allows the Task Master to



Circle No. 89 on Reader Service Card

turn in its own radius, says the manufacturer. During sweeping, objects enter the main broom chamber through the hinged hopper lid. After passage, hopper lip returns to normal position and the objects are swept into the hopper.

*Patch & Kase Corp.*

## Low-Lift Truck Has Power Lifting, Lowering

The Powerox model PXG features pushbutton power lifting and power lowering. This gives positive control over retraction and exten-



Circle No. 90 on Reader Service Card

sion of the rear wheels so that operator can position the truck into a pallet or withdraw without difficulty. There is no binding between the truck and pallet due to linkages and rear wheels not being fully retracted.

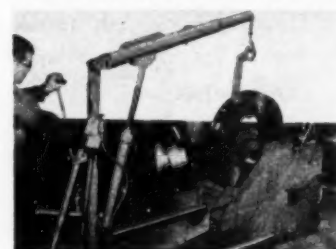
The Powerox electric pallet low-lift model PXG is a truck for operation in narrow aisles. A com-

pact drive mechanism with motor and transmission placed above drive wheel reduces overall length and allows truck to operate in six-foot aisles with 48 x 48-inch pallet loads. Load stop to extreme front end measures 24½ inches. Models are available in 4000 and 6000 pounds capacity. Total lift is 4 inches.

*Barrett-Cravens Co.*

## Coil Hook Designed for Crane

A line of coil hooks has been made available for these cranes. Use of the hooks will increase the



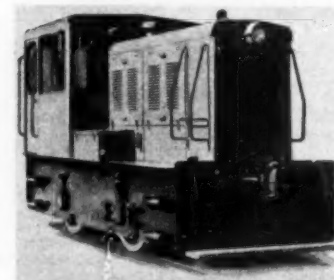
Circle No. 91 on Reader Service Card

crane's versatility by enabling it to lift and carry strip steel, tin plate, and other hard-to-handle coil products. The cranes are available in ¼ to 3 ton capacities. Manufacturers says the addition of the hook will represent a 50 to 75 percent savings in man hours of handling strip steel.

*Ruger Equipment, Inc.*

## Will Design Custom Locomotive for You

This manufacturer announces the custom design and manufacture of



Circle No. 92 on Reader Service Card

locomotives for all industrial uses. Main type featured are diesel-hydraulic and diesel-electric locomotives in 5 to 40 ton sizes and track gauges from 21 to 56½ inches. Each locomotive has a high-torque diesel engine, a torque converter, and a power-shift transmission. Manufacturer says the units have convenient and responsive controls that permit safe operation by unskilled workers.

*Rogers Brothers Corp.*

## Strapping Direct from Coil

Model 651 Bulk-binder pneumatic stretcher can use steel strapping directly from the coil. It's designed



Circle No. 93 on Reader Service Card

for use with the Gerrard Bulk-binder, for .035 and .050 steel strapping, ¾ and 1¼ inches wide. The stretcher has continuous take-up of slack, and adjustable tension control. Gerrard engineers will survey your strapping needs without obligation, and recommend the best equipment for your operations.

*A. J. Gerrard & Co.*

## Hour Meter Is Explosion Proof

An explosion proof hour meter is designed for use on fork lift trucks, engines, generators, or air compressors which might be located



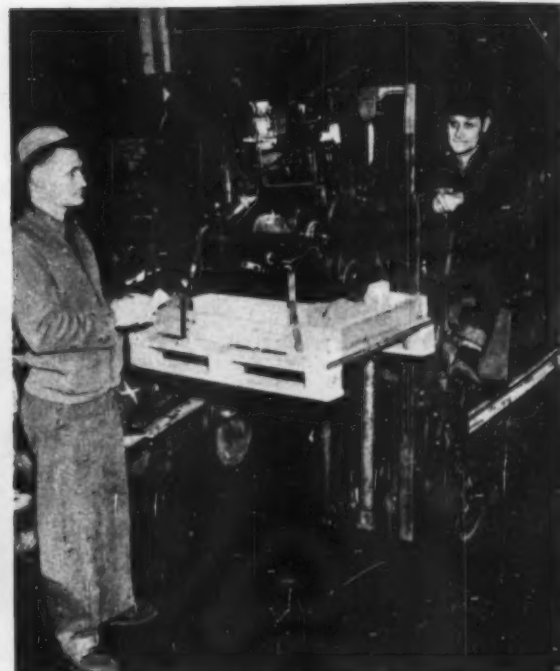
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**B.F. Goodrich**




## Pneumatic tires

B.F. Goodrich makes a complete range of sizes and variety of tread designs, including the new All-Purpose.



## Solid tires

Pressed-On Solid in regular or Deluxe Cushion, or Vulcanized-On Solid—which is right for you? What tread design? What compound?

**Free B.F. Goodrich  Analysis tells you which tires are right for your job!**

**Can save you up to 50% on industrial tire costs!**

Do you need a pneumatic or solid industrial tire? What tread design—what tread compound—is best for your materials handling work? The FREE B.F. Goodrich Tire and Wheel Analysis gives you the answers. They're answers that can save you up to 50% on industrial tire costs, up to 20% on maintenance.

Just mail the coupon at the right. Without cost or obligation, a B.F. Goodrich TW Analysis man will study your hauling surfaces, equipment, loads and other problems. Then he'll recommend the right industrial tires for you to use. His recommendations are unbiased, because B.F. Goodrich makes a complete line of industrial tires.

Why wait to enjoy the benefits of a FREE B.F. Goodrich TW Analysis? Mail the coupon *today!*

A special consulting service is available to manufacturers of materials handling equipment.

*Specify B.F. Goodrich tires when ordering new equipment*

*B. F. Goodrich Tire Company  
A Division of The B. F. Goodrich Company  
Department TW-735, Akron 18, Ohio*

I would like further information on your FREE TW Analysis.

NAME

COMPANY

STREET

CITY  ZONE  STATE



**B.F. Goodrich industrial tires**

© The B.F. Goodrich Company

Circle No. 6 on Reader Service Card

## WHATS NEW IN EQUIPMENT

ed in hazardous areas. Available for 12 and 32 volt applications, the meter is housed in a specially designed, explosion-proof case which is approved by Underwriter's Laboratories under Class I, Group D specifications. The meter tells at a glance the actual hours and minutes of operation.

*John W. Hobbs Corp.*

## Refuse Pick-Up System Now Integrated

An integrated system of mechanical pickup of trash and refuse is said to reduce handling and time. The system, utilizing a hydraulic-



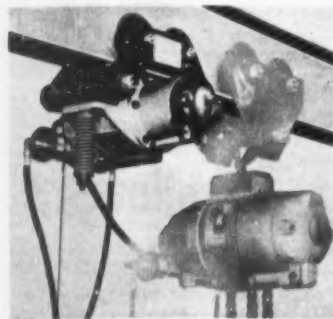
Circle No. 95 on Reader Service Card

cally operated compacting unit mounted on a truck chassis, an automatic lift and dump mechanism and a movable metal container, is said to eliminate hazards and unsanitary conditions. The movable containers, called Trashtainers, are leakproof and mounted on wheels. Through push button controls one man can operate the entire system.

*Equipment Manufacturing, Inc.*

## Hoist Pulls Two-Ton Load At 70 FPM

A powered hoist trolley, called Hoistractor, is able to pull a two-ton load at 70 feet per minute.



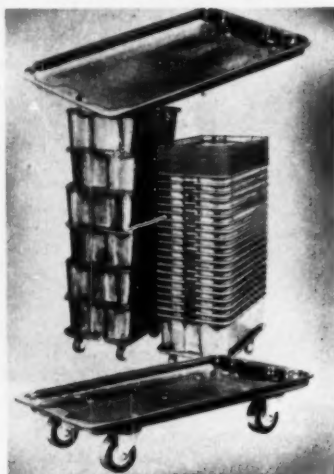
Circle No. 96 on Reader Service Card

Powered by an axial-type air motor, the unit exerts 250-pound drawbar pull on a beam through a spring-loaded neoprene drive wheel. Speed can be varied from a slow creep to full speed of 150 feet per minute. The hoist fits most standard size beams.

*Gardner-Denver Co.*

## Pan Covers Keep Out Dust

Two new accessories now available are pan covers and 4-caster dollies. The accessories fit the 22



Circle No. 97 on Reader Service Card

x 14 x 8-inch and 27 x 16 x 11-inch Stack-n-Nest Pans. They are molded of fiberglass reinforced polyester in colors to match the pans. Pan covers fit on pans to keep out dirt and dust. Dollies are equipped with four heavy-duty swivel casters. Both have the company's "contour offset" design which allows safe stacking and compact nesting of pans and covers on the dolly.

*G. B. Lewis Company*

## Portable Staplers Have Many Uses

Four foot-operated Duo-Fast staplers just introduced weigh only 48 pounds, and can be used as bolted-down stapling stations or roving auxiliary staplers. The first model has a 10-inch reach and a 24-inch solid post, for stapling carton bottoms. The second has a hinged post that allows clearance for inserting cartons into position. The third is a straight arm model for stapling flat cartons, telescopic



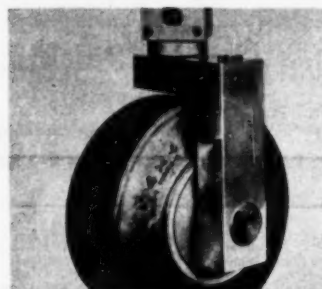
Circle No. 98 on Reader Service Card

cartons, and corrugated fillers; it also has a 10-inch reach. The fourth is a table model tacker for assembling small wooden shipping boxes.

*Fastener Corp.*

## Make Your Platform Lift Self-Propelled

A hydraulic wheel, Model No. 1674 Hydro-Wheel, is designed to make "self-propelled" any platform lift unit of 1,100 to 2,000 lbs. capacity that uses an electrically driven hydraulic pump for lifting the load. The wheel rotates either forward or backward hydraulically, and with a steering tongue bolted to the spindle above the swivel block, may be steered



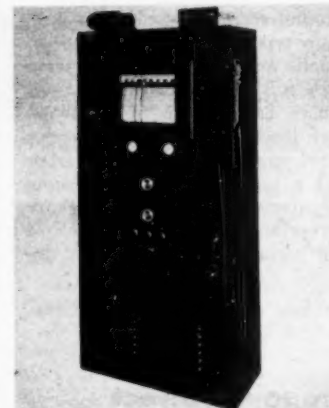
Circle No. 99 on Reader Service Card

through 360 degrees. Used on a unit having a pump rated 1 GPM at 1,000 PSI, it gives an operator about 1.7 gpm at light load and a maximum speed of 2 mph. Oil lines are connected to two parts in the swivel block.

*Mechanisms Company*

## Dual Purpose Controller

A dual Dewtronik is designed for the control of atmosphere dew-point and carbon potential. The instrument consists of two complete atmosphere sampling, analyzing, and controlling means mounted in one cabinet, with one two-record strip chart, indicating and recording controller. This Dewtronik is applicable to the



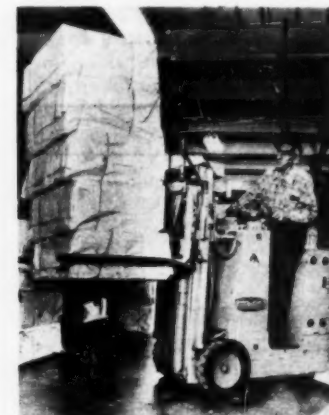
Circle No. 100 on Reader Service Card

simultaneous control of endothermic type special gas atmospheres as sampled from two generators, one generator and a related or separate furnace, two furnaces, or two zones in the same furnace.

*Ipsen Industries, Inc.*

## Clamping Attachment For Fork Trucks

Both palletized and non-palletized loads and those on skids and in bins, can be handled by this



Circle No. 101 on Reader Service Card

clamping attachment for electric fork lift trucks. Called the Master Universal Clamp, the unit has a clamping range from 18 to 46 inches or 23 to 60 inches, depending on the materials being handled.

*Lewis-Shepard Products, Inc.*

## These Bags Give More Usable Space

A single-gusset sewn-valve multi-wall bag is now available. It looks just like the two-gusset bag when

filled, but stacks uniformly and can be easily palletized. The new design gives users more usable space by creating one flat side.



Circle No. 102 on Reader Service Card

There is more room for product flow during filling operations, and reduced blow-outs. These bags can be used for flour, powdered chemicals, fertilizers, insecticides, and sand. They are made at all Bemis multiwall plants.

*Bemis Bros. Bag Co.*

### Corrugated Boxes Won't Skid

Put an end to skidding and sliding corrugated boxes with Skid-Master containers. The corrugated



Circle No. 103 on Reader Service Card

has non-skid chemicals built into the board, to decrease damage caused by skidding, slipping, and sliding. The containers look just like conventional corrugated, have the same strength, and are printed and sealed the same way. Stacked containers will not slip even when tilted at heavy angles on fork trucks.

*Olin Mathieson Chemical Corp.*

Continued on page 18

# new!



**faster-framing • precision-quality • 100% reusable**

This versatile new Acme Steel framing metal brings amazing ease and economy to building durable structures and equipment. Its pattern makes it ideal. Scientifically spaced slot-and-round-hole pattern simplifies assembly. Friction-Joints can be made by bolting through slots when speed and convenience are most important. For maximum strength, bolting through round

holes forms a Lock-Joint that just won't budge. Structural bolts with a 2000-pound safe load capacity can be applied with a hand or power wrench. Just plan, measure, cut and bolt.

AIM Brand Slotted Angle is cold-rolled galvanized steel for dependable strength and rigidity. 10 or 12 foot lengths come in packages of 10 pieces with bolts and nuts.

Available in two sizes: Standard 225-80 (2¼" x 1½" x .080") and Heavy-duty 300-104 (3" x 1½" x .104").

**FREE!** Get ideas from the AIM Brand Slotted Angle brochure for fixtures and equipment you can build with less material, fewer man-hours. Write Dept. FED-19, Fabricated Materials Division, Acme Steel Company, Chicago 27, Ill.



**AIM Brand Slotted Angle**



Circle No. 7 on Reader Service Card

## Can You Use Belt Conveyors?

Use this check list to find out where belt conveyors can help you.

1. Are you moving bulk, packages, or parts?
2. How much weight has to be moved? How far?
3. If the rate of feed is not uniform, what peak amounts must be moved?
4. How fast must the conveyor move?
5. How wide must be belt be?
6. Is a smooth ride required?
7. Must the material be moved on an incline? How steep?
8. Must the belt resist acids? Are sanitary conditions required?
9. How many transfer points will be needed?
10. Will the material be hot, cold, or abrasive?
11. Should the conveyor be portable?
12. Should the conveyor be extendable?
13. Do workers have to cross the path of the conveyor?
14. Should the conveyor be sealed to protect the surrounding atmosphere from dust or fumes?
15. How will material be discharged from the conveyor?
16. Does the conveyor have to be reversible?
17. Will the material be moved through processing operations or merely between operations?
18. How is the belt to be fed? Will there be any impact from loading?
19. Will the material have to be weighed while it is in motion?
20. Are all parts accessible for normal servicing?

# What Can Belt Conveyors Do

**BELT CONVEYORS** are a top material handling buy. Here's why: Muscle power of unskilled material handling labor costs you about \$15 per horsepower while the same amount of electricity to power a conveyor costs only 2 cents or less. Conveyor belts need less power than other ways of moving material because they have a high ratio of live to tare weight. (When they run cost of replacing them is low. Inspection and at-down hill they can be used to generate power.) Conveyor parts are long lasting and the labor tendency costs are also low, and loading and unloading are economical operations. And don't overlook the importance of the excellent safety record of belt conveyors.

There are two types of flat belt conveyors. In one, the belt slides on a smooth wood or metal bed. In the other, the belt moves on rollers. Slider beds are especially suited for short distances and light loads. And they can handle fragile loads. They do a better job of keeping loads level and are cheaper. Rollers in roller bed conveyors are spaced at regular distances to keep the belt from

sagging. Advantages of roller bed conveyors include smooth, noiseless operation, small amount of friction, and the ability to carry a wide variety of package shapes and sizes in either direction or on an incline. They are recommended for medium and heavy service.

Rough surfaced rubber belts can move loads up 30 degree inclines. With magnetic conveyors you can move ferrous materials up virtually any incline. Metal belts (strip steel or stainless steel) enable you to process material while you move it.

Troughed belts and equipment are available that will move more material than you'll need on your toughest job. Some will handle up to 8,000 tons an hour. The thickness of rubber needed to cover the fabric plys of the belt depends on its length. Longer belts need less covering because the wear-inducing loading impact is spread over more area. Generally very thin covers can be used for light nonabrasive material such as grain, 1/16 to 1/8 inch thickness of rubber are usually enough when sand or coal is being handled, and 3/16 to 1/4 inch covers are needed for sharp crushed rock.



Circle No. 237 on Reader Service Card

**CANS** go around the corner without sizes being mixed as metal framework guides both of the can rows onto the cross belts.



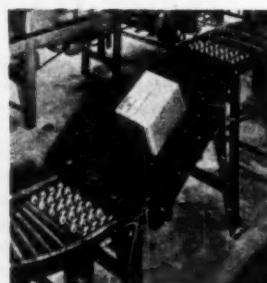
Circle No. 238 on Reader Service Card

**REVERSIBLE** shuttle conveyor moves chemicals to storage tanks.



Circle No. 239 on Reader Service Card

**CEILING-height** conveyor moves sand to molding bed with automatic plow.



Circle No. 240 on Reader Service Card

**BOOSTER** belt raises packages to roller conveyor and gravity moves the packages.



Circle No. 241 on Reader Service Card

**MOTOR** and all belt driving parts are enclosed in the head pulley drum, protected from the weather.

## For You?

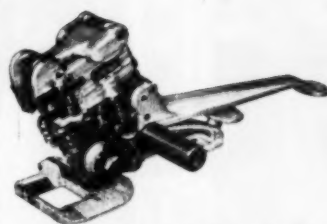
You need belts with thick covers if the loading impact is heavy. But you can eliminate the need for thick covers on a long distance conveyor belt by using an acceleration or speed-up belt to take the loading impact. This concentrates most of the wear on one heavy, expendable belt. Scuffing is reduced since the material flows from the acceleration conveyor onto the main belt at the same speed and in the same direction as the main belt is moving.

If you are loading material onto a belt from a chute, proper design will increase the life of the belt. A V notch will permit fines to fall on the belt ahead of the coarse material and thus act as a cushion. Or you can install a screen chute through which the fine material will fall to the bed ahead of the lumps.

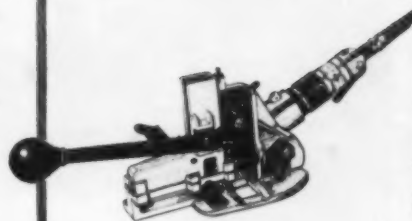


Circle No. 242 on Reader Service Card

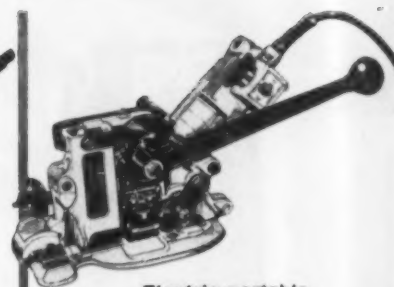
**IN - THE - FLOOR** conveyors move uncured tires to vulcanizing presses, then to inspection. Workers can easily cross in-floor belt. Tires can be switched to left or right by reversible belt. With conveyors, operations can often be performed on material while it is being moved.



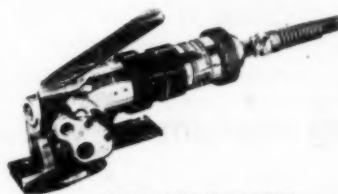
The only one-hand strapping tools  
**SFC Series**



Air power portable strapping machines  
**AP Series**



Electric portable strapping machines  
**AE Series**



Complete line of air power tensioning tools  
**PN Series**

The only air power feed wheel tensioning tool for heavy duty strapping



**FN Series**



Heavy-duty air power sealers  
**N Series**

## Make your product cost less to handle, store, ship, and receive

Binding things together with steel strapping is a low cost way to eliminate individual handlings, save space, and prevent damage. These nine machines—part of the most complete line of equipment in the steel strapping in-

dustry—create new ways to save with strapping. Signode will be glad to help you select the right equipment and devise methods to make the most of it. There's a Signode man near you. Call him today, or write:

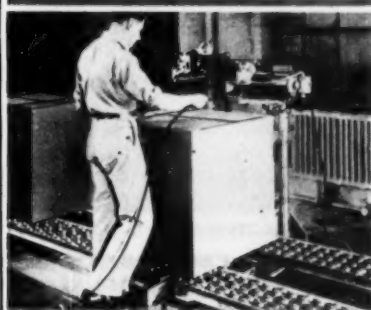


First in steel strapping

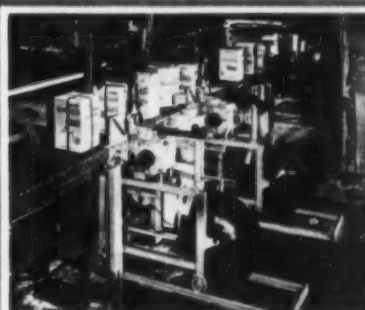
### **SIGNODE STEEL STRAPPING CO.**

2668 N. Western Avenue, Chicago 47, Illinois

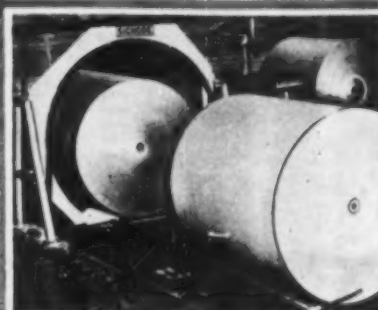
Offices Coast to Coast. Foreign Subsidiaries and Distributors World-Wide  
In Canada: Canadian Steel Strapping Co., Ltd., Montreal • Toronto



Power strap feeders  
**Model PSF**



Fully automatic carton strapping machines—**Model M2N**

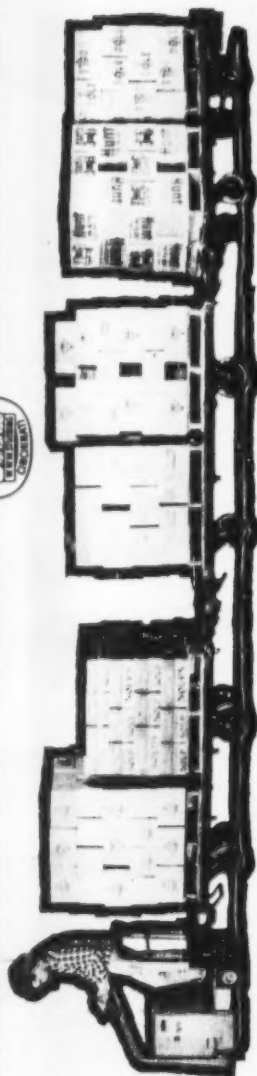


Fully automatic roll and coil strapping machines **Model M2ORB**

Circle No. 8 on Reader Service Card

# Hydro-Lectric A GREAT NAME IN LIFT TRUCKS

A TRUCK FOR EVERY PURPOSE AND MATERIAL



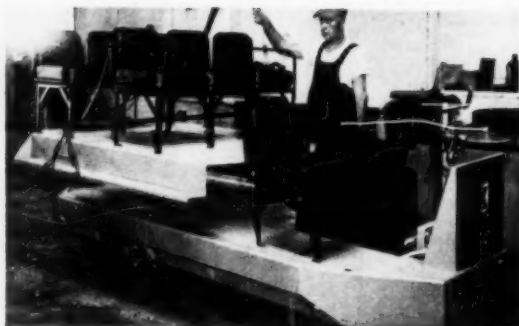
This powerful Hydroelectric Tractor hauls one or multiple units with speed, safety and ease of operation. Features the exclusive DYNA-DUAL POWER UNIT. Power enough to pull loads of 6000 lbs. or more at low cost.

Write for Bulletin KT

**LIFT TRUCKS, INC.**

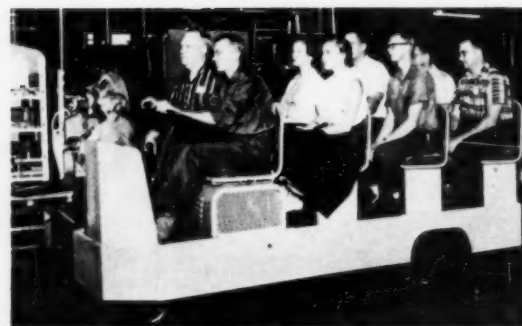
2417 Spring Grove Avenue, Cincinnati 14, Ohio

Circle No. 9 on Reader Service Card



Circle No. 222 on Reader Service Card

**ELECTRIC BURDEN CARRIER** doubles as a passenger carrier. All you have to do is swing a metal platform with attached seats into place and it's ready to ride.



Circle No. 223 on Reader Service Card

**PASSENGER CARRIER** has torque converter drive to eliminate shifting and add pulling power when it hauls trailers. It can transport eight people at one time.

Material handling equipment will . . .

## Move Your Workers to

**H**AVE YOU EVER thought of using material handling equipment for moving your workers to the job faster? There are many versions of standard handling equipment available for this type of work—they have been modified to carry people instead of material. And when you have workers moving over the route on a production job, or workers traveling long distances between jobs, think about mechanizing their travel.

Moving sidewalks and ramps, based on conveyor design, can handle large crowds. Where you have to move men further than they usually walk but not far enough to use mobile carriers, use a moving sidewalk.

Over long distances, you'll find the mobile personnel carriers a good solution to your problem. You can get these carriers in many sizes and designs, powered by gasoline, LP-Gas, diesel, and electricity.

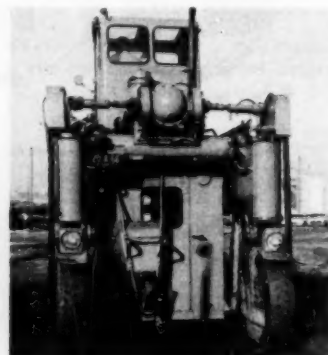
Their applications are numerous: carrying inspectors and supervisors through large work areas, moving maintenance men to the job, mail distribution, carrying plant policemen and firemen.

Other operations require moving the worker vertically rather than horizontally. Maintenance work often has to be done in high, out-of-the-way places. You can make these jobs easier by using portable elevators with special platforms to



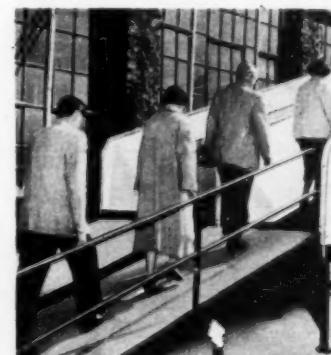
Circle No. 224 on Reader Service Card

**ELECTRIC-POWER CART** has many in-plant uses. It carries visitors through the plant; it is used by payroll workers for collecting time-cards; and also for inspections.



Circle No. 225 on Reader Service Card

**PASSENGER CARRYING POD** is picked up and transported by a straddle carrier. It can be used to carry work crews over a large area, and is summoned by phone system.

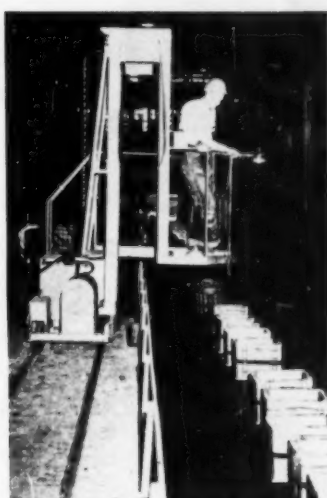


Circle No. 226 on Reader Service Card

**MOVING RAMPS** can be used to ease traffic problems during peak congestion periods. The ramp can reverse direction to carry workers to and from work fast and safely.



Circle No. 227 on Reader Service Card  
**MOVING SIDEWALK** travels at the same speed as moving flasks. This permits worker to pour steadily.



Circle No. 229 on Reader Service Card  
**GUIDED CAR** automatically follows a rail path. It allows the inspector to operate more freely and safely.

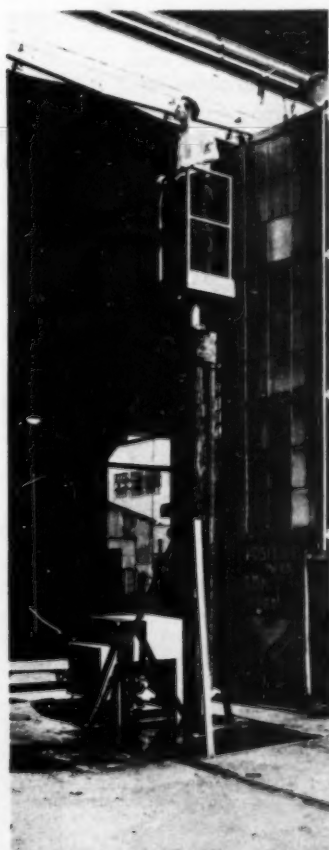
## the Job

hold the men. Or you can get platform attachments for fork lift trucks.

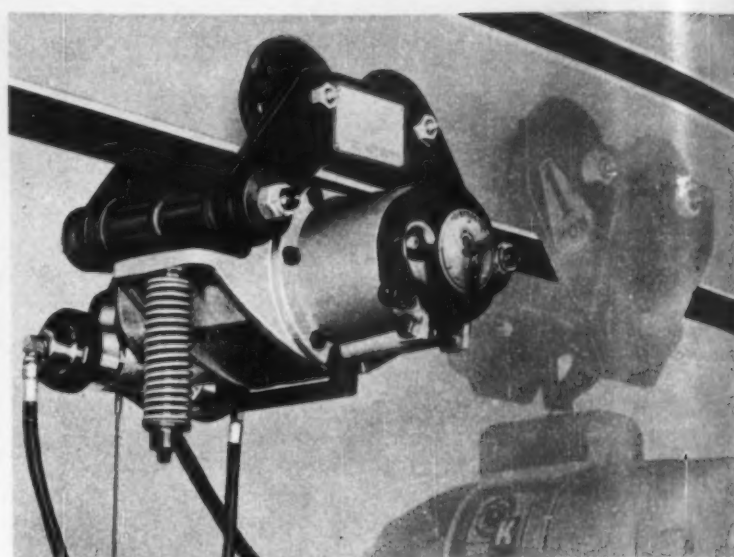
There are hydraulic lift platforms centered over a single cylinder or mounted on multiple cylinders. Most of these are stationary or have limited movement. You can use them to support men working at different levels, say, on giant presses. The large hydraulic platforms will lift heavy loads of men and equipment to the job. ▲ ▲



Circle No. 228 on Reader Service Card  
**ONE-MAN CART** is gasoline powered, has three wheels for easier maneuvering. Used for inspection, cart has cab for driver's comfort. And it is used indoors and outdoors.



Circle No. 230 on Reader Service Card  
**LIFT PLATFORM** is supported by hydraulic cylinder. It is used for overhead maintenance jobs and inspection. Side braces help support the worker standing on platform.



## Now, push-pull power with new **HOISTRACTOR**

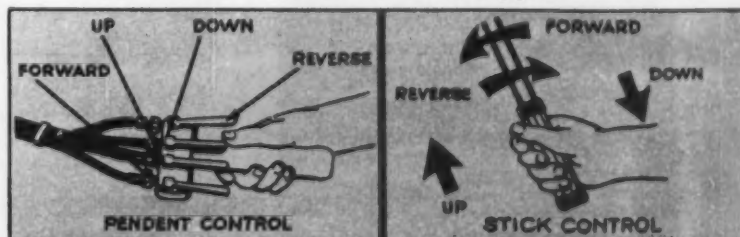
Now, it's an easy one-man, one-hand operation to raise, lower or move loads up to two tons. Simply use the handy new "Hoistractor." This air-powered hoist trolley, connected to any beam hoist by a drawbar, rides the same beam as the hoist. Hoist lifts and lowers . . . "Hoistractor" moves hoist and load along the beam.

### New **HOISTRACTOR** features

- Fast, safe movement of heavy loads—without operator fatigue.
- Speed variable from slow creep to full-load speed of 70 ft. per min.
- Axial-piston air motor exerts 250-lb. drawbar pull on beam.
- Sensitive air controls permit smooth acceleration and deceleration . . . accurate load spotting.
- Easily adjusted mechanical brake for positive stopping. Brake, not dependent on air supply, is applied automatically in event of air line failure.

Write for Bulletin 87-1.

### ONE HAND CONTROL—two types available



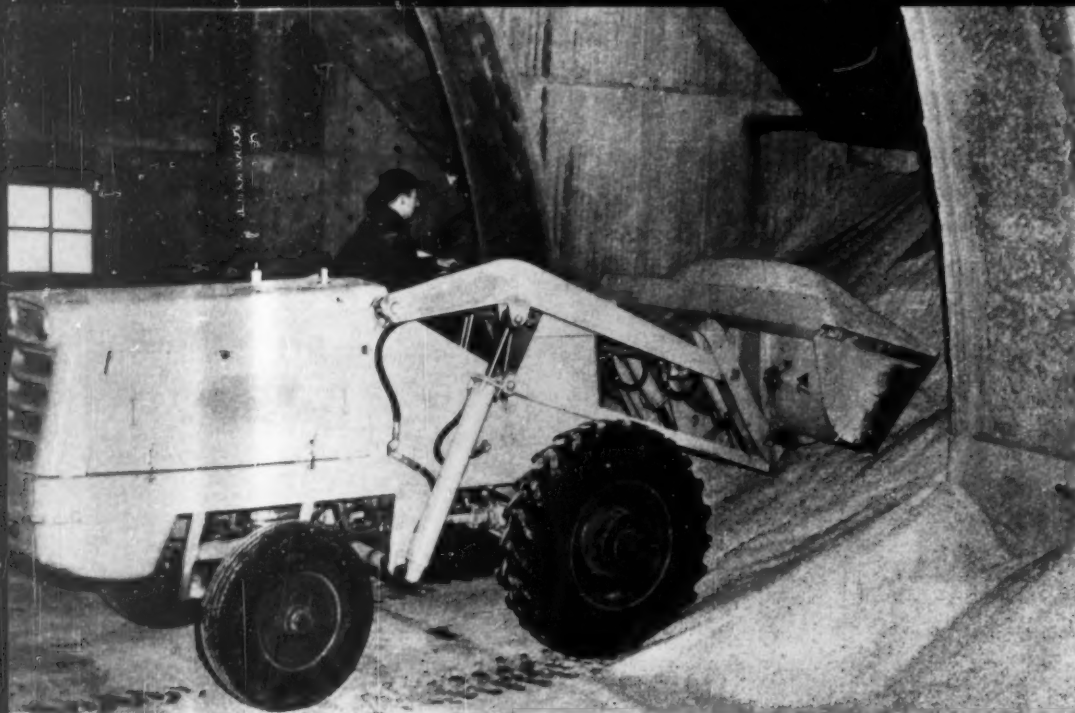
Squeeze hand grip has up-down operating levers for hoist and fore-aft levers for "Hoistractor."

Swiveled rod with four-way grip control. Raising or lowering grip raises or lowers hoist load.



EQUIPMENT TODAY FOR THE CHALLENGE OF TOMORROW  
**GARDNER - DENVER**

Gardner-Denver Company, Quincy, Illinois  
Circle No. 10 on Reader Service Card

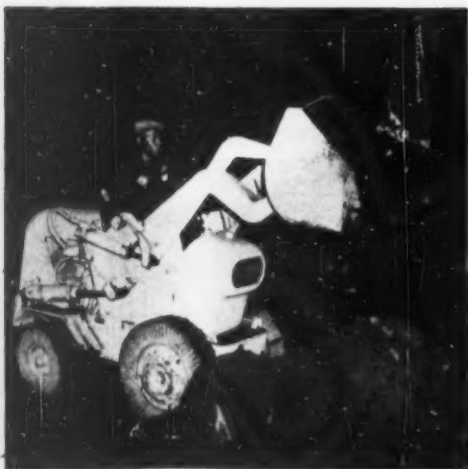


Circle No. 231 on Reader Service Card

**STOCKPILING SALT INDOORS** is a warehousing job performed by a front end loader. This warehouse has a 44.6 million pound capacity. When working in corrosive atmospheres, loaders sometimes use such protective features as closed crankcase, special air cleaner, and sealed voltage regulator and generator.

## Front End Loaders

# Speed Up Indoor Bulk Handling



Circle No. 232 on Reader Service Card

**DUMPING USED SAND** is one of the front end loader's jobs in a foundry. This machine uses laminated tires to safeguard against scrap damage. This sand results from the shakeout of a mold.



Circle No. 233 on Reader Service Card

**SCRAP HANDLING**, both indoors and outdoors, can be done quickly and safely by the loader's bucket. Here pottery rejects are picked up inside the plant, carried out, dumped into refuse trucks.



Circle No. 234 on Reader Service Card

**FILLING BOXCARS** with bulk material is a specialty of the front end loader. Notice how the rear-wheel steering of this unit permits it to maneuver in and out of the car's narrow door.

**YOU'VE SEEN** the front end loader (some call it a tractor shovel) in action outdoors. Handling bulk material, loading, stockpiling — these are some of the jobs the loader does outside. This same kind of work has to be done indoors, too, and there you'll find the front end loader again.

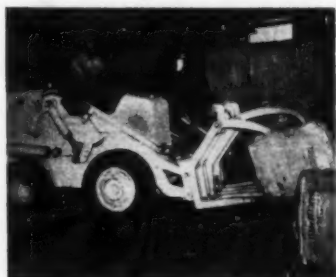
The loader is designed for rugged duty in atmospheres that might be dusty, damp, corrosive. You'll find loaders with 2-wheel drive, either front or rear, or 4-wheel drive. The 4-wheel drive has power in each axle, won't lose traction on poor surfaces. With its bucket it can load and dig.

The front-wheel drive (sometimes called bucket-wheel drive, because the axle is near the bucket) is primarily a loader. It is compact, has a short wheelbase, and has small rear wheels with a great steering angle. It is highly maneuverable.

The rear wheel drive unit can load and dig. It has a medium length wheelbase, with corresponding stability.

What type of front end loader should you buy? Here are questions you should ask before making your choice:

1. What is your operating area? How wide are your aisles, how high are your clearances? Are your floors solid and level?
2. What are the job demands on the machine? Will it be used full-time on the job? Will it be used with attachments for other jobs? Will it be used indoors only, or outdoors and indoors?
3. How much capacity does the loader need on the job? Will it have to load as much as possible in a short time? Or will it be feeding some other operation that has a limited speed or capacity?
4. What kind of material will the loader handle? Is it heavy or dense? Loose or tightly packed?
5. Will the loader be used in one place or will it have to be transported between job sites? Will it have to travel over highways?



Circle No. 235 on Reader Service Card

**STACKING BALES** is a job for a front end loader with a grab attachment. Loader uses laminated rubber tires to protect against damage from metal scraps on the floor.



Circle No. 236 on Reader Service Card

**SCOOPING SULPHUR** from storage piles is this loader's job. It dumps the chemical into a hopper on wheels which is later towed away.

# Rapistan®

## couples ideas and products to solve handling problems

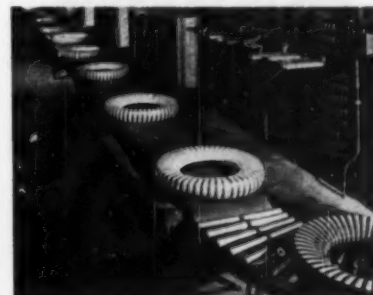
Rapistan conveyors smooth and speed the flow of goods and protect



**Flow-Rack**—Flows stock into crach, saves aisle space. Choice of gravity, wheel, roller or strip conveyor. Easily extended or adapted to items stored. Positions goods for fast order selection.



**Rapid-Wheel Gravity Conveyor**—Straight, curved and spur sections; portable or permanent; varied wheel patterns; steel, galvanized or lightweight aluminum.

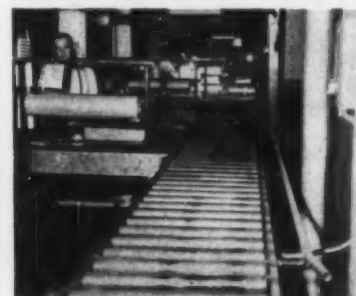


**Heavy duty Horizontal Belt Conveyor**—A permanently-installed unit for smooth, fast horizontal flow of heavy units, cartons, boxes, parts, crates, etc. Variety of widths and lengths.

profits while they save time, ease handling problems and maintain volume production. Whether it's retailing, manufacturing or wholesaling, business is making greater use of the flexibility and efficiency of Rapistan power units, gravity units and accessories. Rapistan combines money-saving ideas, outstanding quality of design, materials and workmanship with practical engineering of standard units.



**Rapistan Inter-Floor Belt Conveyor**—Relieve elevator congestion, eliminate heavy lifting and carrying with Floor-Veyor and Floor-Veyor, Jr. models for interfloor movement.



**Rapistan Live-Roller Conveyor**—Permits halting goods on conveyor for weighing, etc. Eases accumulation or sweep-off along the line. Exclusive pop-out safety rollers protect personnel.



**Rapistan Industrial Casters and Wheels**—Light to heavy duty, cold forged, steel forged, stamped steel; steel, rubber, Durastan wheels; swivel or rigid assemblies.

## New Idea Handbook Explains Coordinated Materials Handling

Walk through 70 actual installations as you leaf through this new handbook of materials handling ideas. See how combined use of many Rapistan conveyors is compounding materials handling savings in time, space and manpower. Write for your copy.



**Aluminum Portable Belt Conveyor**—Lightweight, adjustable, easily moved, stores vertically in small space. May be used horizontally. Perfect for stacking operations.



**Rapistan Magnetic Parts Conveyor**—Moves ferrous metal parts or scrap iron. Adjustable pitch. Operates in tight spaces at inclines up to 72°. Dumps to bin or hopper.



**Rapistan-Keystone Overhead Trolley Conveyor**—Use overhead space, simplify traffic with this unusually flexible, versatile conveyor in processing, assembly, finishing and inspection.

## FREE CATALOGS

Write for prices and specifications on any item shown in this ad.

# Rapistan®

Materials Handling Ideas

Circle No. 11 on Reader Service Card

The RAPIDS-STANDARD CO., Inc.  
580 Rapistan Bldg.  
Grand Rapids 2, Michigan

# WHAT'S NEW IN USEFUL LITERATURE

## Gives Truck Service Tips:

*Hobbs Hour Meter Talks* is a pamphlet that describes many applications of the engine hour meter. In the latest issue you can find out the types of equipment that could use the meters.

A new line of dual circuit pressure switches is announced.

John W. Hobbs Corp.

Circle No. 171 on Reader Service Card

## Conveys Between Building Levels:

A folder describes the Moto Flow freight conveyor. This consists of a set of side rails on which a platform moves up and down. An electric winch provides power to move loads on the platform.

M-B Corp.

Circle No. 172 on Reader Service Card

## How To Assemble Framing Material:

A 12-page construction handbook tells you how to use the AIM Brand slotted angle. It gives instructions for forming this framing material into storage, material handling, and maintenance structures. All accessory items, including the special cutter which makes a square cut with one stroke are illustrated.

Fabricated Materials Div.,  
Acme Steel Co.

Circle No. 173 on Reader Service Card

## Catalog Covers MH Line:

Here's a 48-page catalog of miscellaneous material handling equipment. It includes information about bar racks, benches, casters, carts, shelving, shipping equipment, trucks, skids, and other products.

Standard Equipment Co.

Circle No. 174 on Reader Service Card

## Shows Engine Overhaul Systems:

A 30-page brochure describes a systems concept for overhauling jet engines. This system meets the needs of commercial airlines. Features include simplified tooling, simplified assembly systems, and progressive paced processing.

Automatic Warehousing Branch,  
Pesco Products Div.,  
Borg-Warner Corp.

Circle No. 175 on Reader Service Card

## How Many Marks Does Your Plant Make?

There are 49 marking jobs in the average plant, says a new Weber brochure. It lists them, and tells how they can be done faster, easier, cheaper. Weber hand printers and label printing machines are the key. Weber stencils are cut as a carbon copy of the billing or any other typing operation. Standard typewriter. You can buy the blanks with your firm's logo die-cut.

Weber Marking Systems  
Div. of Weber Addressing  
Machine Co., Inc.

Circle No. 176 on Reader Service Card

## Reclaim Waste Containers:

Save thousands of dollars annually with the ComptoPak, says a 6-page bulletin just released. This machine turns used corrugated containers into sheets of crimped cushioning material that's useful for unlimited packaging applications. The brochure tells how the system works, and gives several typical uses.

ComptoPak Div.  
Comptometer Corp.

Circle No. 177 on Reader Service Card

## Cushioning Samples:

Learn about Tufflex cushioning materials from actual samples. The manufacturer will send them on request. There are over 100 types of Tufflex and Tufflex fabrics. They can be used for thousands of cushioning applications. They're approved for military packaging. You can get them in rolls or cut-to-size pieces.

Wood Conversion Co.

Circle No. 178 on Reader Service Card

## Dynamometer Design and Application Book:

An 81-page book has been published to show you how to use absorption type and traction-load measuring dynamometers. The book contains many on-the-job illustrations that show you how to make spring testers, measure deflection of aircraft wings, check railroad switches, motor torque, etc. with portable traction dynamometers. Included with each photograph is the pertinent engineering data. The book, titled "Dillon Dynamometers at Work in the World," can be had by sending 50¢ to W. C. Dillon & Co., Inc., P. O. Box 3008, Van Nuys, California.

## Chain Conveyor Featured:

The Vernoflex chain conveyor is the subject of a 6-page brochure. Flexibility of vertical and horizontal turns is stressed, with the standard dips and curves diagrammed. Photographs show typical installations.

Vern G. Ellen Co.

Circle No. 179 on Reader Service Card

## Electronic Tractor:

Bulletin 586 gives you latest information on the Guide-O-Matic, the electronic industrial tractor that requires no operator. Photographs show the unit at work in various industries: foods, paper, warehousing, metalworking, freight terminals, electronics, and explosives.

Barrett-Cravens Co.

Circle No. 180 on Reader Service Card

## Drums Made of Corrugated?

"Yes sir," says a Gaylord bulletin just released. The DrumPaket is a 6-sided corrugated container you can use instead of rigid drums. Overlapping flaps on top and bottom caps lock permanently. Just slide them in place and the drum is closed without straps or tape—can only be opened with tear-tape provided. DrumPakets come in capacities from 2½ to 138 gallons, and hold all kinds of products. They come knocked down. Can be printed like corrugated boxes.

Gaylord Container Corp.

Circle No. 181 on Reader Service Card

## Binds Any Size Package—Without an Operator:

Eliminate packaging log jams with the Autobinder. Fully automatic, this steel strapping machine binds any size package. No adjustments to make for different sizes. Speeds goods through packaging stations quickly, safely, cheaply. Literature describes it.

A. J. Gerrard & Co.

Circle No. 182 on Reader Service Card

## Explains Conveyor Systems:

A 6-page bulletin illustrates and describes a complete line of Unibilt power and gravity conveyors. It explains "assemble-yourself" construction and outlines details of engineering services. The bulletin includes a sketch of a typical 2-floor conveyor system.

Conveyor Specialty Co.

Circle No. 183 on Reader Service Card

## Ends Stencil Brushing:

Mark stencils the roller way with Stencil-Matic. This offset-type roller, described in a bulletin that's yours for the asking, puts an end to stencil brushes or constant inking. A highly absorbent ink roller holds a full day's ink supply. Stenciling is quick, neat, easy.

Bayberry Products Corp.

Circle No. 184 on Reader Service Card

## Handling Equipment Catalog:

A 12-page catalog describes specialized material handling equipment. There are sections on adjustable dock ramps, automatic pallet loader, automatic pallet dispensers, pallet load compressor, hydraulic lift table, and special purpose machinery (such as automatic drum pallet loader, cantilever bridge lift, vertical bridge lift).

Beacon Machinery Co.

Circle No. 185 on Reader Service Card

## Warehousemen's Roster:

You can get a copy of the roster of members, 1958-59, for the American Warehousemen's Association, Merchandise Div. It lists names, addresses, areas, telephone and TWX number of members and executives to contact.

American Warehousemen's Association,  
Merchandise Div.

Circle No. 186 on Reader Service Card

## Tells about Truck Features:

A six-page brochure has been published about the CY-20, a 2,000 pound capacity, pneumatic tire, gas-powered fork truck. Major components are described and more than a dozen operating features of the unit are illustrated. Tables and graphs indicate grade and capacity ratings and upright dimensions.

Industrial Truck Div.,  
Clark Equipment Co.

Circle No. 187 on Reader Service Card

## High Speed Bagging and Weighing:

Bulletin No. 210 shows the Bemis Feeding and Filling Machine and Trim-Weigh Scale in action. It explains operational performance and engineering data on this fast, accurate bagger and weigher. High speed packing in

Continued on page 46

See your local distributor for  
**Moline Chains**

ALABAMA, Montgomery, Alabama Bearings Co.; Mobile, Bearing & Transmission; Opelika, Davis-Dyer Sup. Co.; Decatur, H. & W. Sup.; Dothan, The Hub City Sup. Co.; Birmingham, Industrial Supplies, Inc.; Transylvania & Sup.; Atlanta, Jack Lee Mach. & Sup.; Sheffield, Morris Sup. Co.; Brewton, Pensacola Mill Sup.; Yonah, Strickland Bros. Mach.

ALASKA, Ketchikan, Northern Machine Works; Sitka, Sitka Engine & Equip. Co.; Wrangell, Wrangell Machine Works.

ARKANSAS, El Dorado, American Sup. Co.; Fort Smith, Best Foundry & Mach. Co.; West Helena, A. S. Kelly; Little Rock, Mill & Wire Sup.

ARIZONA, Flagstaff, Arizona Sup. Co.; Phoenix, Semco Bearing Co.

CALIFORNIA, LOS ANGELES, J. W. MUIRER CHAIN & BEAR CO.; El Centro, W. H. Southey; San Francisco, Charles A. Fowler Co.; Fresno, George M. Philpott Co., Inc.; Garden Equip. Co.; Stockton, Stockton Iron Works; Jones Bearing & Sup.; San Leandro, Wincham Corp.; San Diego, Standard Iron Sup. Co.; Anaheim, Reliable Hardware.

COLORADO, Denver, Allen Bearing Sup. Co.; Power Transmission Inc.; Grand Junction, Bearings & Power Transmission Co.; Platteau Sup. & Mach. Co.

DELAWARE, Wilmington, Bennington Co.

FLORIDA, Ocala, H. A. Bushee Co.; Jacksonville, J. C. Christopher; Tampa, Ellis Mach. & Sup.; Bart Low, Miami; Gainesville, Winter Haven; Haven Mill Sup.; Lakeland, Miller Bearings, Mine & Mill Sup. Co.; Orlando, Mill Supplies, Inc.; Panama City, Panama Mach. Sup.; Southern Car Wash Sup.; Pensacola, Pensacola Mill Sup.

GEORGIA, ATLANTA, B. C. WATKINS, Augusta, Augusta Mill Sup.; Richmond Sup. Co.; Fort Sup. Co.; Macon, C. W. Farmer; Macon Sup. Co.; Savannah, Georgia Sup. Co.; Atlanta, Harbison Corp.; Industrial Serv. Co.; Southern Bearings & Frane, Co.; Brunswick, Parker, Helms & Langston, Inc.; Thomasville, E. J. Williams Inc.

IDAHO, Boise, Yanko Mach. & Sprocket Co.; Western Bearings.

ILLINOIS, Chicago, Chain Sales, Rosendick Bearing & Trans.; Aurora, Fox Sup. Co.; Peoria, Haggerty Bros.; Fairfield, Mid-East Sup. & Mach. Co.; Carpentersville, Northern Illinois Sup. Co.; Streator, Streator Industrial.

INDIANA, South Bend, Hydro-Mech Inc.

IOWA, Fort Dodge, Fort Dodge Mach. & Sup. Co.; Davenport, Des Moines, Cedar Rapids, Spencer, Globe Mach. & Sup. Co.; Sioux City, Standard Bearings Co.

KANSAS, Coffeyville, Kansas Bearing Sup.

LOUISIANA, Alexandria, American Sup. Co.; Lake Charles, Behring's Bearing Serv. of Louisiana; West Monroe & Shreveport, Calousia Midland Bearing & Sup. Co.; Baton Rouge, Louisiana Bearing Inc.; New Orleans, Service Sup. & Engr. Co.

MAINE, Bangor, Snow & Healey.

MARYLAND, Baltimore, L. A. Benson Co.; Hagerstown, Hagerstown Equip. Co.

MASSACHUSETTS, QUINCY, UNION BEAR & SPROCKET CO.; Needham Heights, Hubcock Equip. Co.; Cambridge, Bentley Babb Inc.; Lowell, Tracy Co., Cast-Steel Flint Corp.

MICHIGAN, BIRMINGHAM, GEORGE SIMMER, Muskegon, Factory Sup. Co.; Lake Shore Mach. & Sup.; Detroit, Majestic Stamping Co.; Tool Sup. Co.; Saginaw, Northern Ind. Sup. Inc.; Grand Rapids, Michigan Bearing Co.; Schuster Equip. Co.; Hazel Park, Weston Rubber & Asbestos Co.

MINNESOTA, DUPRIES, R. L. ACTON AND ASSOC.; Willmar & Morris, Berg Sup. Co.; Fergus Falls, Empire Sup. Co.; Thief River Falls, Falls Sup. Co.; Albert Lea, New Ulm, Deaton, Pionetone, Pine City, Rochester, St. Cloud, Stillwater, Worthington St. Paul, General Trading Co.; Minneapolis, Industrial Sup. Co.; Lakeland Engr. & Equip. Co.

MISSISSIPPI, Jackson, Harper Foundry & Mach. Co.; Mississippi Fdy. & Mach. Co.; Laurel, Hilton Fire Equip.

MISSOURI, ST. LOUIS, J. B. FLAHERTY, Carter-Ryco Sales, Inc.; Johnson Ind. Sup. Co.; KANSAS CITY, POWER TRANSMISSION SERVICES, Industrial Bearing & Transmission Co.; St. Joseph, Wiskegan Mach. & Sup. Co.; Springfield, Acme Fdy. & Mach. Co.

NEBRASKA, Omaha, Edward J. Heck & Sons Co.; Grand Island, The Kelly Sup. Co.

NEVADA, Las Vegas, Las Vegas Mach. & Engr. Co.

NEW JERSEY, Trenton, Trenton Bearing Co.; Plainfield, N. M. Barwise, Inc.

NEW MEXICO, Albuquerque, Harry Cornelius Co.

NEW YORK, Troy, Bearing Distributors; New York City, Congro Transmission Co.; Rochester, H. M. Cross, Bronx, Duane Transmission, Breehoad, Eastern Welding Co.; Elmira, Harold Van Roken Mill Supplies; Hicksville, The Long Island Trans. Co.; Buffalo, New Chain Belt Co. & Power Drives Inc.; Syracuse, Sawyer Engr. Co.; Albany, Transmatic Equip. Co.; Lockport, Ward Bros. Mill Sup.

NORTH CAROLINA, Lenoir, Blue Ridge Hardware & Sup. Co.; Statesville & Gastonia, Bryant Sup. Co.; Gastonia Mill Sup. Co.; Rocky Mount, Carolina Mach. & Sup. Co.; Mount Airy, Currier Withers Sup. Co.; Sanford, General Fdy. & Mach. Co.; Wilmington, General Sup. Co.; Mill & Contractor Sup. Co.; Wilmington Iron Works, Lexington, General Transmission Sup. Co.; Roanoke Rapids, Industrial Distributors, Inc.; High Point & Winston-Salem, Reiter Mach. Co.; Charlotte, Industrial Howe & Sup. Co.; Matthews, Morse Sales Co.; Henry Wells Co.; Greensboro, Odell Mill Sup. Co.; Salisbury, Piedmont Mill Sup. Co.; Burlington, Sykes Sup. Co.; Statesville, Tri State Distributors.

NORTH DAKOTA, Fargo, Jamestown, Bismarck, Empire Sup. Co.; Grand Forks, Grand Forks Sup. Co.; Minot, Minot Sup. Co.; Williston, Williston Sup. Co.

OHIO, Toledo, Gear Products Co.; Cincinnati, Cincinnati Trans. Co.; Cleveland, C. J. Edwards Co.; Columbus, The White Gir. Co.; Canton, Wilcox Industrial Sup.

OKLAHOMA, Chickasha, Chickasha Gin & Mill Sup.; Oklahoma City, Dagwell-Piste Co.; Power Equipment; Muskogee, Pate Ind. Sup. Co.

OREGON, PORTLAND, J. W. MUIRER CHAIN & BEAR CO.; Medford, Cal-Ore Mach.; Astoria, Eco; Eugene, Fisher Bros. Co.; Salem, Mill Sup. Co.; Grants Pass, Pacific Logging & Mill Sup.

PENNSYLVANIA, ARDMORE, JOHN A. SHENKMAN; Lancaster, Aggregate Equip. Inc.; Harrisburg, Industrial Motor Sup. Co.; Hatfield, Industrial Sup. Co.; Allentown, Keystone Bearing & Supply Co.; Philadelphia, Lindsay-Oberholzer & Co.; Scranton, Sherman Bearings Co.; Honey, Sprout Waldron Co.; Pittsburgh, C. A. Turner Co.

RHODE ISLAND, Providence, James A. Starck.

SOUTH CAROLINA, COLUMBIA, THOMAS S. GLAZERBROOK; Greenville, Carolina Sup. Co.; Charleston, Charleston Sup. Co.; Columbia, Columbia Sup. Co.; Spartanburg, Crawford Mill Sup. Co.; Greenwood, Dixie Hardware & Mill Sup.; Rock Hill, Manufacturers Sup. Co.; Florence, O'Brien Mach. And-Subs; Seaboard Transmission; Walterboro, Simmons Diesel & Equip. Co.; Orangeburg, J. W. Smoak Hardware Co.; Summerville, Southern Mill Supply Co.; Sumter, Sumter Mach. Co.; Columbia, The Carolina-Pepper Sales Co.

SOUTH DAKOTA, Watertown, Aberdeen, Brookings, Badger, Pierre, Cave Sup. Co.; Sioux Falls, Western Bearing Sup. Co.

TENNESSEE, Memphis, Lewis Supply; Knoxville, Browning Selling & Sup. Co., Inc.; W. J. Savage Co.; Nashville, Keith-Simmons Co.

TEXAS, DALLAS & HOUSTON, W. E. BROWN CO.; Dallas, Allied Belling & Trans. Co.; Coastal Plains Sup. Co.; Lubbock, Bigham Gin Sup. Co.; Corpus, Corcoran Mill Sup.; Plainview, Diamond Ind. Sup.; Fort Worth, General Ind. Sup. Co.; Amarillo, A. B. Suprenthor; Wichita-Fetter Co.; McAllen, A. M. Hassell Sup. Valley Bearing Serv.; Marshall, E. B. Hayes Mach. Co.; Lufkin, Lufkin Foundry & Mach. Co.; Pecos, Rozario Sup. Co.; El Paso, Patterson Sales Co.; Wack, Richards Equip. Co.; Houston, Texas Belling & Mill Sup. Co.

UTAH, Salt Lake City, Power Transmission.

VERMONT, St. Johnsbury, Reed Sup. Co.

VIRGINIA, Bassett & Martinsville, Blue Ridge Howe & Sup. Co.; Norfolk, Henry Wells Co.; Industrial Bearings Co. of Virginia, Inc.; Lynchburg, J. C. Feyerher Co.; Richmond, James McGraw Co. & Southern Railway & Sup. Co.

WASHINGTON, SEATTLE & YAKIMA, CHAIN BEAR, INC.; Everett, Greenfield's Ind. Sup.; Spokane, Rott-Arwater Co.; Tacoma, Best Mach. Co.; Bellingham, Schuman Steel Prod.; Longview, Longview Equip.

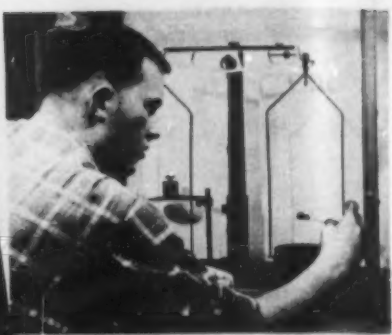
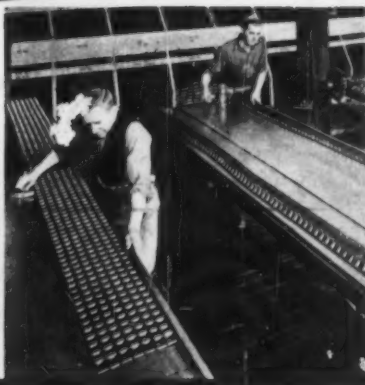
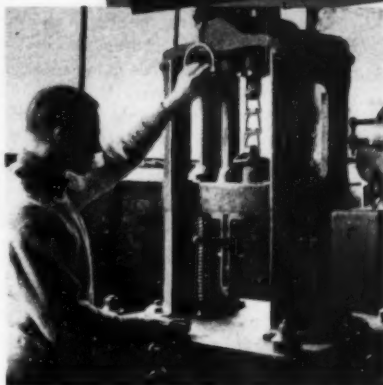
WEST VIRGINIA, Huntington, Wall Conveyor & Mfg. Co.

WISCONSIN, Madison, Richard Elia Co.; Eau Claire, Clemens Auto Sup. Co.; La Crosse, La Crosse Auto Sup. Co.

WYOMING, Cheyenne, P. S. Pell Co., Ltd.

*Only  
Moline Chains  
measure up to this  
triple test for quality!*

1. Link by link gauging and inspection
2. Pitch testing of "limbered" strands
3. Stressing to prove strength and shock testing

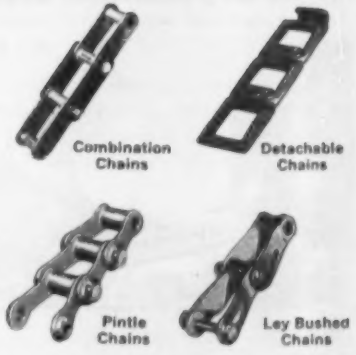


All chains measure up to "manufacturers' standard"\* but only Moline Malleable Chains measure up to the high standard of quality established by Moline. And only Moline Chains are subjected to triple testing—an exclusive quality control procedure that entails nine separate tests and a total of fourteen operations.

Only Moline has specialized in the manufacture of malleable chains. Moline Malleable Chains are produced in one of the most complete and modern continuous-flow plants in the United States.

All these facts are your assurance that Moline Chains will give efficient, trouble-free service for conveying, elevating and power transmission under the toughest working conditions.

Call your local distributor listed on the opposite page for information and immediate service.



**MOLINE DOES NOT  
COMPETE WITH  
ITS CUSTOMERS**

**Moline Chains**

for conveying, elevating and power transmission

**MOLINE MALLEABLE IRON CO., St. Charles, Illinois**

\*A standard of design and dimensions to permit interchangeability with standard chains of other manufacturers.

Circle No. 12 on Reader Service Card



Circle No. 243 on Reader Service Card

**MAGNESIUM BOARDS** support heavy material handling vehicles in and out of rail cars safely, cheaply. This firm uses several of them for efficiency on its multi-car siding.



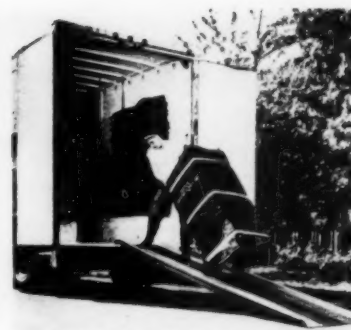
Circle No. 244 on Reader Service Card

**STEEL DOCK BOARD** holds up to 15,000 lbs. Stops prevent it from slipping. Recessed handles are for lift trucks since it is too heavy for lifting and positioning manually.



Circle No. 245 on Reader Service Card

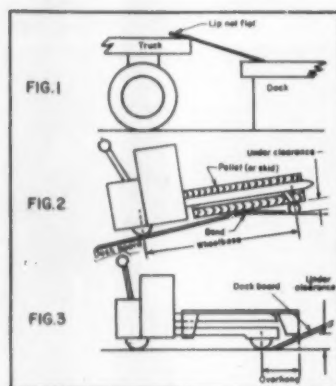
**TRUCK RAMP** is ideal for delivery trucks, etc. It goes along with the truck and is light enough for the driver to position manually (left). With it one man can unload heavy



Circle No. 246 on Reader Service Card

objects, using 2-wheel hand truck (right). This job would otherwise take two men. A safety tread prevents slipping. Curbs guard against accidentally running off the edges.

## How to Specify Dock Boards



Circle No. 247 on Reader Service Card

**D**ON'T UNDERESTIMATE manual dock boards. Though simple looking, they're carefully engineered material handling tools. They can be just as important to you as the equipment that passes over them. And they should be selected just as carefully.

If you're using makeshift methods, like a boiler plate thrown across the gap, you're wasting money and jeopardizing men and equipment every time a load crosses your dock. You may not notice the waste, but it's there. Your dock board supplier can prove it.

### Capacity:

Dock boards are measured by the truck's axle load, rather than its fully loaded weight. This is because they are usually shorter than the truck, and only one axle is near the center of the board at a time. If you're not sure of the axle load of your trucks, ask the manufacturer or your dock board supplier. On larger structures like yard ramps, capacity is measured by the fully loaded weight.

### Width:

In general, specify your dock

boards as wide as possible. There should be at least 6 inches of clearance between dock board curbs and the sides of the load passing over it. For rail cars, use a board at least 60 inches wide — wider if possible — so fork truck drivers can make the sharp turn into the car. **CAUTION:** don't make dock boards wider than the narrowest door on the vehicles you load and unload.

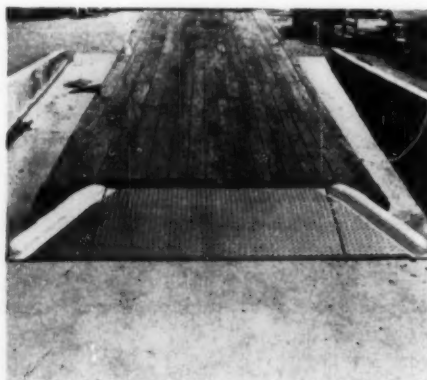
### Length:

Two things determine dock board length: the gap between dock and carrier, and the height difference



Circle No. 248 on Reader Service Card

**YARD RAMPS** are your solution if you have no dock, or if you have a dock but sometimes want to unload elsewhere. They're light, strong, and have wheels or other provisions for easy movement around your yard.



Circle No. 249 on Reader Service Card

**FLARED BOARDS** are handy on small or crowded docks, where maneuvering is tight. They give fork trucks more room to turn. Dotted lines indicate this one's width if unflared.



Circle No. 250 on Reader Service Card

**COMBINATION BOARD** is for extra-high cars like reefer car shown. Back half is an ordinary dock board for average car heights. Front half engages with pins for extra height when needed.

between them.

Obviously, the dock board has to be long enough to bridge the gap safely. Less obvious is the fact that it must be long enough to do it at a not-too-steep grade. Steep inclines not only overwork fork trucks, they create a trouble spot at the bend or crown. If the incline is steep, a normal crown won't lie flat (Fig. 1). It will eventually break off, but long before that it will ruin the tires of passing handling trucks. The alternative is to bend the lip sharply enough to touch the bed, but this creates a dangerous peak where low-clearance trucks may hang up (Fig. 2). Better by far to design a longer dock board, with less incline.

In addition to lip damage and underclearance, there is another drawback to steep inclines: overhang. When long pallets or skids are used on low-lift trucks, the front of the load may hit the dock board before the wheels start to climb (Fig. 3).

**Use these rules of thumb to figure dock board length for truck docks:**

*Fork trucks* — For the first inch of height difference between dock and truck bed, the dock board should be 16 inches long. Add 5 inches of board length for each additional inch of height difference.

*Walkies or other low-lift trucks* — For the first inch of height difference, the dock board should be 18 inches long. Add 8 inches of board length for each additional inch of height difference.

**Use this rule of thumb to figure dock board length for rail docks:**

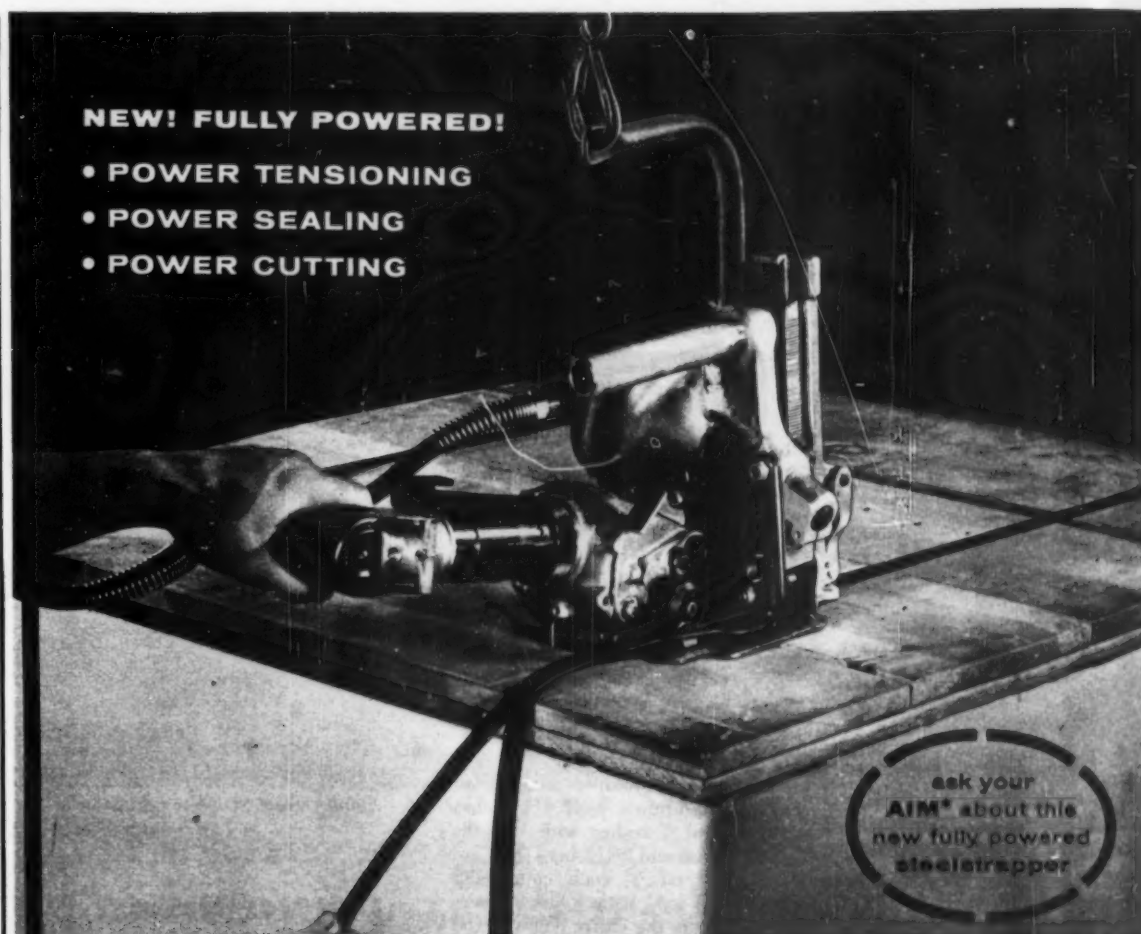
Measure the distance from the center of the nearest rail to the edge of the dock. Dock board length is that distance minus 16 inches.

**NOTE:** These are general rules, for average conditions. For your specific needs, your supplier may recommend a slightly different length. If trucks come in at an angle or rail cars on curved tracks, consult your supplier. This is a **MUST**, no matter how slight the curve or angle.

#### **Special situations:**

*Car-to-car* — Measure the distance between the inside rails of the two tracks. To find dock board length, subtract 44 inches from that distance. Make this type of board just wide enough for the truck to load. That way it's more likely to

*Continued on page 47*



#### **NEW! FULLY POWERED!**

- POWER TENSIONING
- POWER SEALING
- POWER CUTTING

ask your  
AIM\* about this  
new fully powered  
steelstrapper

**Announcing another Acme Steel first...**

### **The new, fully powered A4 Steelstrapper**

**ACME STEEL COMPANY** is first to offer industry a Steelstrapper that tensions, seals and cuts steel strapping automatically... all with air power. Called the A4 Pneumatic Steelstrapper, this new tool includes one-hand controls among its many features.

With steel strapping quickly and easily inserted, the operator merely presses a control on the handle to power-tighten strapping to predetermined tension. And then with another power control on the same handle, magazine-fed seals are applied and the steel strapping cut without waste or operator effort.

Your \*Acme Idea Man can demonstrate the new A4 Pneumatic Steelstrapper and show you its many time, effort and money saving advantages. The first full-power tool of its kind, the new A4 Steelstrapper will give maximum performance in your steel strapping application.

**Contact your Acme Idea Man** at the nearest Acme Steel Company office. Or write: Dept. FES-19, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois. In Canada, Acme Steel Company of Canada, Ltd., 743 Warden Ave., Toronto 13, Ontario.



**ACME  
STEEL**

## **STEEL STRAPPING**

Circle No. 13 on Reader Service Card

## WHATS NEW IN EQUIPMENT

Continued from page 5

### Valve Is One Inch Thick

This ball actuated, spring return valve is only one inch thick and 3 inches wide. These Slim Line



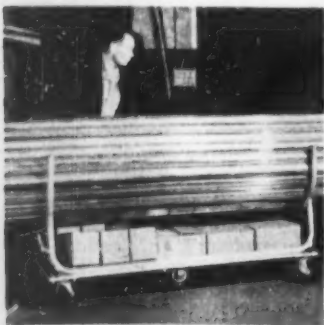
Circle No. 113 on Reader Service Card

valves are streamlined in appearance and can be mounted easily on machinery even where space is extremely limited. They are designed for air, oil, or water service; pressures to 125 psi; temperatures to 150 degrees F.

Hunt Valve Co.

### Floor Truck Workhorse

Many industries can use this floor truck for handling bar stock,



Circle No. 104 on Reader Service Card

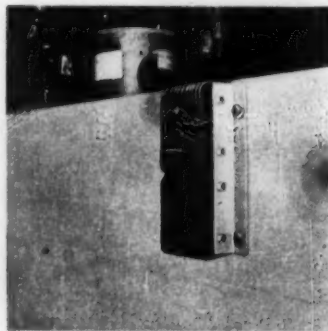
tubing, extrusions and shapes, pipe, sheet rolls, in addition to boxes and cases. It is the Model T-RG "Rol-Guide" that has a rigid, retractable fifth wheel mounted under

the center of the truck. This enables the operator to maneuver a heavily loaded truck forward or backward in a completely controlled line of travel, or turn it around its axis.

Rol-Away Truck Mfg. Co., Inc.

### Vertical Dock Bumper

A recently designed vertical dock bumper has application to shipping or receiving docks that



Circle No. 105 on Reader Service Card

are served by commercial vehicles of various sizes and bed heights. The vertical bumper is made of rubberized-fabric pads 4½ inches thick and 8 inches wide. Depths are 20, 24, and 36 inches. They are mounted on ¾ inch connecting rods and held with ¼ inch structural angles the entire depth of the bumper.

Durable Mat Co.

### Jib Crane Is Base Mounted

This base mounted jib crane features a heavy duty beam sup-



Circle No. 106 on Reader Service Card

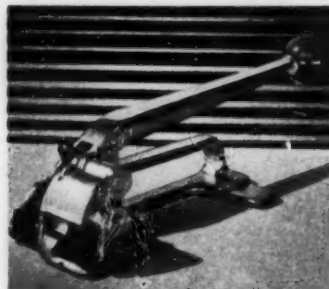
port bearing to provide safe load support. Basic construction of the crane is such that the total beam deflection under full load does not

exceed .060 inch per foot. The unit bolts to a suitable foundation and is not dependent on external structural members for support.

Becker Crane & Conveyor Co.

### Tightener Requires Few Strokes

The lightweight "O" steel strapping tightener was engineered to require few strokes, thus reducing



Circle No. 107 on Reader Service Card

operator fatigue. Manufacturer says it sets a new standard of efficiency for tensioning steel strapping to the required maximum with a manually-operated strapping tool.

Stanley Steel Strapping, division of The Stanley Works

### One Man Moves Yard Ramp

This lightweight portable loading ramp can be used where no loading dock is available. Made of



Circle No. 108 on Reader Service Card

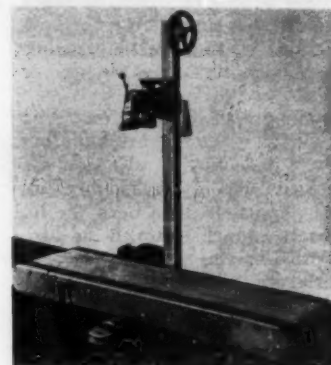
magnesium, this long-incline yard ramp permits easy loading of truck or rail car by hand truck or fork truck. Ramps are raised to position by two hydraulic cylinders attached to wheel assemblies that float during loading operations and do not support ramp load.

Modern Light Metals, Inc.

### Conveyorized Bag Closer

You can speed up bag closing operations with the Model B-5 con-

veyorized portable bag closer. The conveyor is 5 feet long, with a 12-inch wide belt. It sews at 30 feet a minute. Just set this machine



Circle No. 109 on Reader Service Card

down anywhere in the plant and plug it in, and it's ready to work. It comes with legs in any height to suit you. The hand wheel at the top adjusts the head from 14 to 39 inches above the conveyor belt. The head tilts back for easy cleaning and adjustment.

Dave Fischbein Co.

### Hoist Models Added to Line

Three models of the CM Lode-star electric hoist extend the capac-



Circle No. 110 on Reader Service Card

ity range and lifting speeds. Model R has a capacity of 2 tons and lifting speed of 8 feet per minute; Model L, one ton capacity at 16 feet per minute, and Model J, ½ ton capacity at 16 feet per minute. These models provide a selection of lifting speeds and capacities ranging from ⅛ to 2-tons.

Chisholm-Moore Hoist Div.

## Truck Loading and High Stacking Truck

A high mast that extends to a maximum height of 135½" for stacking, and at the same time



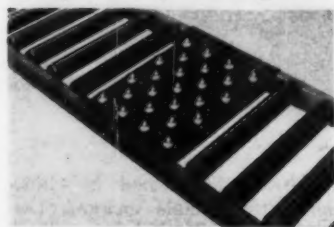
Circle No. 111 on Reader Service Card

lowers to 69" for truck loading is now available. The mast is composed of three telescoping sections and fits all Pug model trucks. The trucks are electric fork lifts, featuring compact design. Turning radius is only 52". Several capacities are available.

Heifred Corporation

## Ball Transfers

Here's a ball transfer that can be inserted anywhere in a roller conveyor line by removing a few



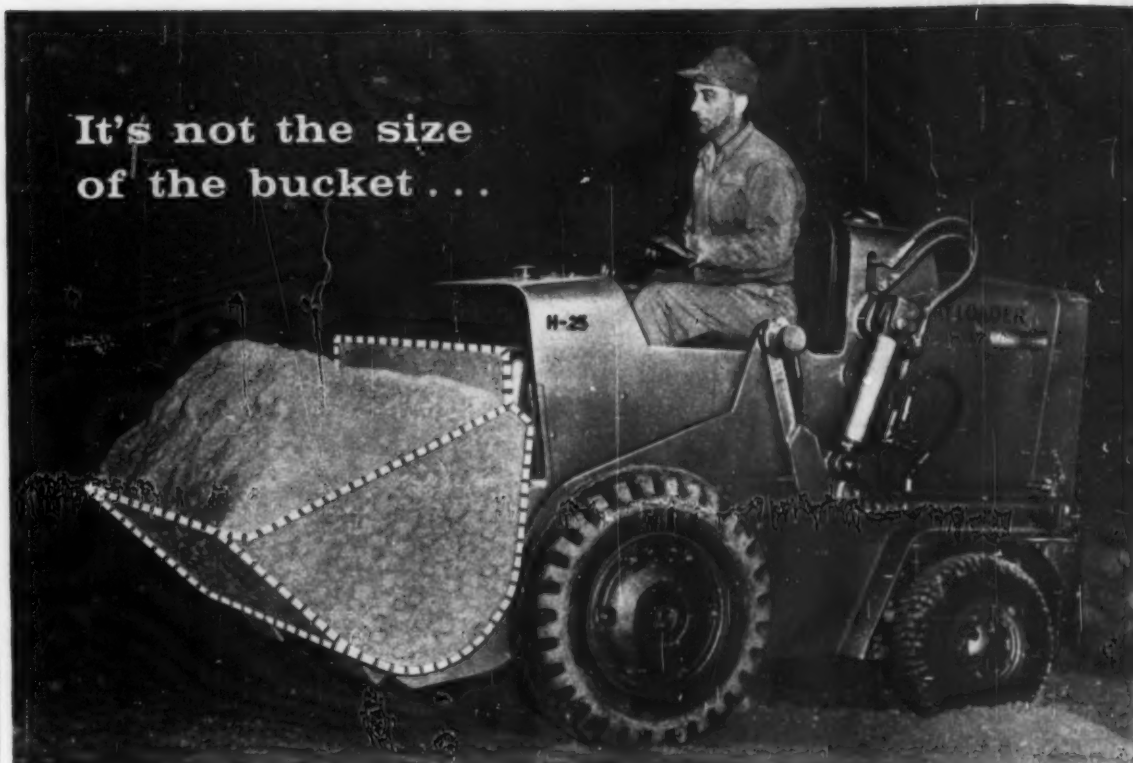
Circle No. 112 on Reader Service Card

rollers. It is especially useful where cartons must be removed from the conveyor, or turned end for end, or at right angles.

Mathews Conveyor Co.

## Narrow-Aisle Hopper

This self-dumping hopper designed for handling bulk material, scrap and waste through narrow aisles and in confined areas is only 30 inches wide. It passes through ordinary doors with ease, and has



It's not the size  
of the bucket...

...It's the weight of the load that  
measures tractor-shovel capacity!

**More pounds per load...** Buying a tractor-shovel on the basis of bucket volume, without knowing the carry capacity IN POUNDS of the unit, is putting the cart before the horse. You may be getting too much bucket, or not enough, for handling *your* materials most efficiently.

Buying on the basis of lifting capacity can be equally misleading since any tractor-shovel can lift much more than it can carry. However, it is the number of pounds which can be moved safely at normal speeds, in relation to the weight of the material to be handled, which determines the proper bucket size.

The carry capacity of the new model H-25 "PAY-LOADER" is 2,500 lbs. This is equal to 40% of the total machine weight and represents a new high in Capacity-to-Weight ratio for a unit of this class.

It is easy to select the proper bucket size which will enable you to safely move the largest load of *your* materials with an H-25 by referring to the table below.

FOR MATERIAL WEIGHING	BUCKET SIZE (S. A. E. RATED)	H-25 CARRY CAPACITY
up to 90# per cu. ft.	1 cu. yd.	2,500 lbs.
up to 105# per cu. ft.	¾ cu. yd.	2,500 lbs.
up to 125# per cu. ft.	20 cu. ft.	2,500 lbs.
up to 155# per cu. ft.	16 cu. ft.	2,500 lbs.
up to 190# per cu. ft.	13 cu. ft.	2,500 lbs.

**More loads per shift...** The new H-25 "PAY-LOADER" not only handles a big load for its size and weight, but has the speed, maneuverability and ease of operation which permits it to move more loads per shift. Features which make this extra productivity possible are full-reversing, power-shift transmission with two speeds forward and two reverse; torque-converter drive; power-steering; power-transfer differential which automatically shifts more torque to the wheel with the best traction, and fast, powerful hydraulic bucket control.

Your "PAYLOADER" distributor will be glad to show you why you get more for your money in the model H-25 and other "PAYLOADER" units. Ask him about Hough Purchase and Lease Plans too. If you are interested in more information on the H-25, write to The Frank G. Hough Co., 929 Sunnyside Ave., Libertyville, Illinois.



Modern Materials Handling Equipment

**THE FRANK G. HOUGH CO.**

LIBERTYVILLE, ILLINOIS  
SUBSIDIARY—INTERNATIONAL HARVESTER COMPANY

Send data on "PAYLOADER" models

☐ 4-wheel drive ☐ 2-wheel drive

Name.....  
Title.....  
Company.....  
Street.....  
City..... Zone..... State.....

Circle No. 14 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

a capacity of ten cubic feet. It can be pushed manually or transported by fork truck. The self-dumping action is triggered when the operator releases a locking handle on the rear of the hopper. It rolls forward to dump, then returns to an upright position and automatically locks itself. The 30 inch width



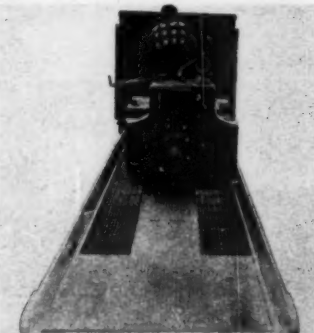
Circle No. 114 on Reader Service Card

is standard, but the hopper can be made narrower for special installations.

Roura Iron Works, Inc.

### No-Dock Truck Unloading

Just roll this magnesium yard ramp into position behind a truck anywhere in your yard, and pro-



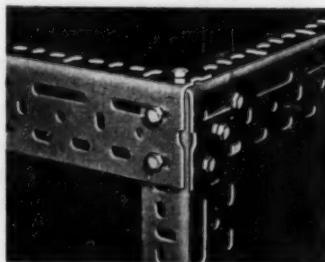
Circle No. 115 on Reader Service Card

ceed to load and unload with fork trucks just as if there were a ramp there. One man can handle them easily. They're also useful for unloading right at the work area rather than at a distant dock, or for relieving congested docks. Latest models have a non-slip grating that insures good traction even in snow, ice, rain, or where there's oil or grease present.

Magline, Inc.

### Rack and Shelving Material

This hot dip galvanized angle comes in 12 and 14 gauge weights



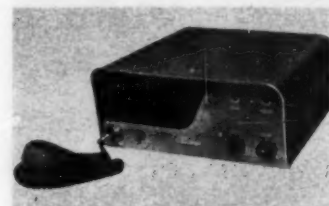
Circle No. 116 on Reader Service Card

and 10 or 12 foot lengths. It has holes and slots spaced so that it may be cut to any length and bolted to make racks, tables, guards, frames, carts, stands, ladders, etc.

Equipto Div.,  
Aurora Equipment Co.

### FM Mobile Radiotelephone

The new Kaar TR500 FM mobile radiotelephone operates in the 450-460 megacycle Special Services and the 460-70 mega-



Circle No. 117 on Reader Service Card

cycle Citizens Radio bands. Under average conditions the unit will provide reliable communication between vehicles and a fixed point within a 10-mile radius of the fixed station. Ranges of up to 50-200 miles can be obtained between vehicles and from fixed points to vehicles when a repeater station is used. The phone may be operated directly from a 12-volt battery or 110 volts ac (house current) and may be used interchangeably as a mobile unit or base station.

Kaar Engineering Corp.

### Sheet Handling Truck

The Sheet Handler was developed for loading gypsum board into boxcars. It is a high-lift platform



Circle No. 118 on Reader Service Card

type truck that unloads by tilting the platform table forward. The truck has a Warner heavy duty dual transmission with four speeds forward and reverse, has a 1,000 pound capacity.

Erickson Power Lift Trucks, Inc.

### The Truck Does the Work

Just back the highway truck into the dock and this dock leveler automatically comes to rest on the truck bed, ready to support loads up to 20,000 lbs. When not in use, the ramp sits in the raised position.

## CUT COSTS on truck battery upkeep with these HOBART CHARGERS

for  
maximum  
battery  
life...use  
good  
dependable  
charging  
...use  
HOBART!

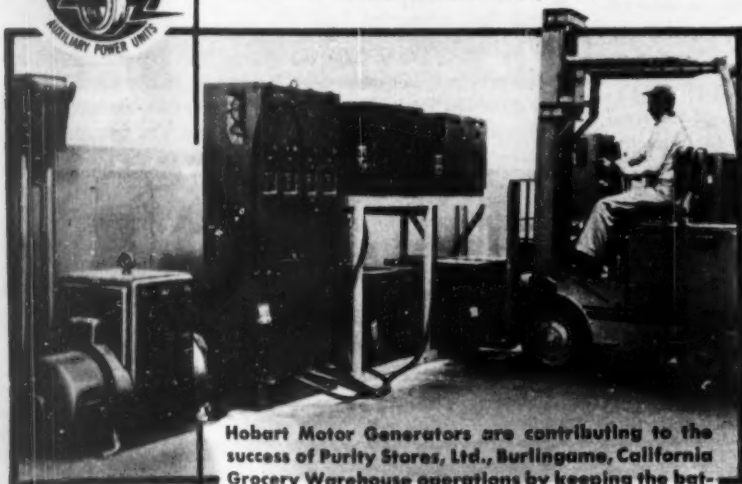


For your battery charging requirements... we suggest you get the **most for your money** by using Hobart Motor Generators. The reason is simply that Hobart Chargers bring you the highest quality at the best possible price!

With "know-how" based on fifteen years of serving the nation's industries, Hobart gives attention to your specific battery charging needs—a motor generator designed especially for the battery it is to charge. It's **fully automatic**—when the required amount of charge is reached it shuts off—there is never any danger of overcharging.

Why not try Hobart on your next charger order? We promise you prompt, on-time shipment. Call, wire, or write us today! Sales and Service Offices in all principal cities.

MOTOR GENERATOR CORPORATION, BOX FLQ-19, TROY, OHIO (Hobart Brothers Affiliate) Phone FE 2-1223



Hobart Motor Generators are contributing to the success of Purity Stores, Ltd., Burlingame, California Grocery Warehouse operations by keeping the batteries in the 23 electric trucks fully charged.

Circle No. 15 on Reader Service Card

Force of the truck backing against the lever arms displaces the counterweight, causes lowering. When



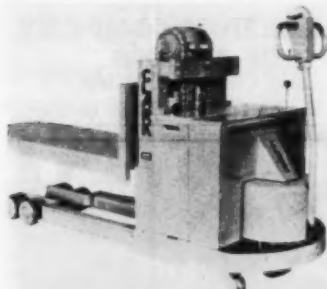
Circle No. 119 on Reader Service Card

the truck leaves the counterweight pulls the ramp up again. The deck is 6 feet wide, has a non-skid floor plate. Length is 6, 8, or 10 feet. Available either recessed or with framework.

Rowe Methods Inc.

### For Lifting Skids

A medium-lift platform for handling skids has been added to the "Power-worker" line of battery powered hand trucks. The standard



Circle No. 120 on Reader Service Card

unit will lift 4000 pounds; a 6000 pound capacity truck is available. Maximum lift height is 21 inches. The skid-carrying platform is 26 inches wide and is available in lengths from 36 to 60 inches in 6 inch increments. Forward and reverse direction is controlled by a butterfly switch in the control head on the steering handle. Steering handle turns 90 degrees in each direction. The truck will travel 2.3 mph loaded.

Clark Equipment Co.

### Rack Made Up of Two Parts

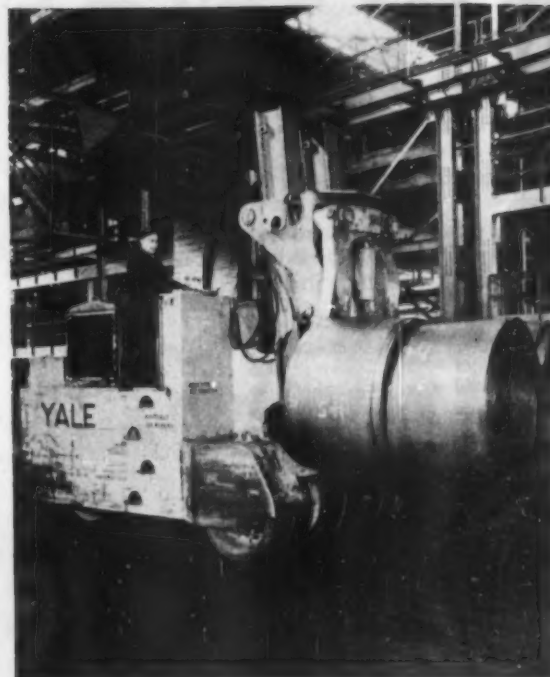
The FICO storage rack features simplified construction—each rack is assembled from two parts. These are a complete upright frame to which is hooked a unit stringer with all necessary attachments welded to it. Manufacturer states that two

**B.F. Goodrich**



Pneumatic tires

B.F. Goodrich makes a complete range of sizes and variety of tread designs, including the new All-Purpose.



Solid Tires

Pressed-On Solid in regular or Deluxe Cushion, or Vulcanized-On Solid—which is right for you? What tread design? What compound?

## Which industrial tires are right for your job?

## Free B.F. Goodrich Analysis tells you

## Can save you as much as 50% on tire costs!

**Problem:** There are many different industrial tire types, sizes, tread compounds and tread designs. Each one is built for a specific materials handling job. Do you know which tires are right for your job?

**Solution:** Without cost or obligation your B.F. Goodrich Tire and Wheel Analysis man will study your equipment, loads, hauling surfaces and other special problems you have. He'll recommend the right tires for you to use—recommendations that are unbiased because B.F. Goodrich makes a complete line of industrial tires.

**Result:** You can save as much as 50% on industrial tire costs, as much as 20% on maintenance costs. Mail the coupon today for your FREE B.F. Goodrich TW Analysis.

A special consulting service is available to manufacturers of materials handling equipment.

Specify B.F. Goodrich tires when ordering new equipment

# B.F. Goodrich industrial tires

Circle No. 16 on Reader Service Card

B.F. Goodrich Tire Company  
A Division of The B.F. Goodrich Company  
Department TW-728, Akron 18, Ohio

I would like further information on your FREE TW Analysis.

NAME \_\_\_\_\_

COMPANY \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_



**Smileage!**

© The B.F. Goodrich Company

The ROUSTABOUT  
is a crane designed for

# MATERIAL HANDLING

Latest Roustabouts outmaneuver, out-produce all others... offer new handling economies. You have to see and operate it to believe it!

Versatility and extreme ease of operation are only two of the outstanding features of the Roustabout. Others include:

- indestructible base structure
- 4 speeds forward or reverse
- reserve power to climb steep grades with full load
- up or down power with winches which will not drop the load
- all gears enclosed in oil
- complete accessibility of all assemblies
- tremendous braking power
- friction clutches for all crane movements
- available in either caster steer or wide rear axle design

## ROUSTABOUT VH MODEL

— Hydraulic — 5, 6, 10 and 12½-ton capacity, with torque converter drive... ideal for jobs involving excessive slewing.



Write for data and name of nearest distributor.



# HUGHES-KEENAN

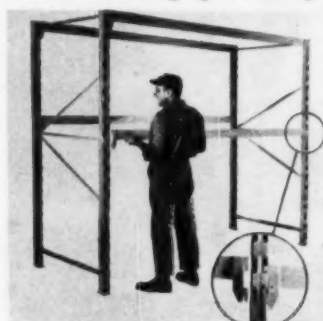
CORPORATION, Delaware, Ohio

Division of U. S. Air Conditioning Corporation

Circle No. 17 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

men can easily erect storage for 300 pallets in one day. Also featured is a built-in lock that prevents accidental dislodging of a stringer.



Circle No. 129 on Reader Service Card

The support post permits setting levels at any desired height in four-inch steps. Uprights and stringers come in any desired dimensions. Racks are constructed so that they can be loaded from front or rear.

Midland Equipment Div

## Records Equipment Activity

The Servis Recorder is used on material handling equipment to record busy and idle time and pro-



Circle No. 130 on Reader Service Card

ductive lifts. Actual costs per truck-day maintenance schedules, incentive plans, and equipment-personnel efficiency can be tabulated. Selective load records can be made by using an adjustable pressure switch furnished with each Model DSR Service Recorder.

The Service Recorder Co.

Circle No. 18 on Reader Service Card



## New! Lightweight Van Ramp! Fast unloading... ANYWHERE!

No dock needed when you use a low-cost Magcoa Van Ramp. Carry it along... unload anywhere. Fabricated of light-weight metal... one man handles, carries and positions. A Magcoa Van Ramp is the ideal solution for loading and unloading trucks on streets, factory yards... wherever dock facilities are limited or non-existent. Fast, safe, weatherproof—a low-cost investment with high returns. Full details and specifications are available for the asking. Simply circle the reader service card or write direct to:



**MAGNESIUM COMPANY  
OF AMERICA**

East Chicago 10, Ind.

## BEST BY TEST

New JIFFY PADDED SHIPPING BAG

with **CLUPAK** OUTER LINER

Almost

DOUBLED IN STRENGTH



Comparison tests of the new JIFFY BAG, made with Clupak Outer Liner—and shipping bags made of plain kraft—SHOW AN INCREASE OF TEAR RESISTANCE from 125.7 grams to 232.0 grams.

This gives you vastly increased protection — AT NO INCREASE IN PRICE!

Send for your free samples — compare — and be convinced!



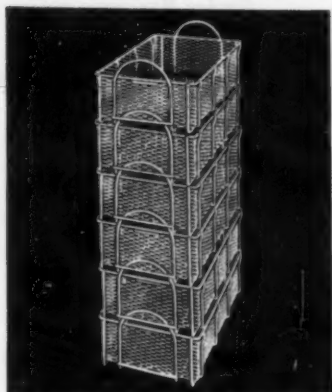
**JIFFY MANUFACTURING COMPANY**

Hillside, N. J.

Circle No. 19 on Reader Service Card

## Stacking Baskets

Fabricating of flat expanded metal, these Eazy-Stak baskets in-



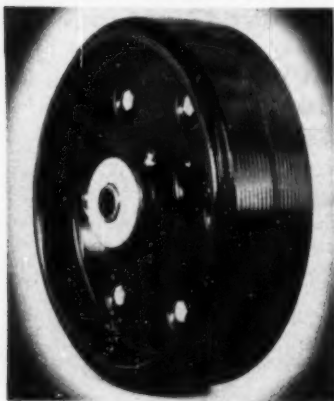
Circle No. 131 on Reader Service Card

sure quick drainage and easy cleaning. They are zinc-plated with a rust-resistant finish. Patented interlock handle provides safe, convenient stacking and compact parts storage.

Wire & Iron Products, Inc.

## Rubber Tired Wheel

You can use the MBHZ demountable wheel (10 x 3 inches) on in-plant trucks, baggage carts, cargo



Circle No. 132 on Reader Service Card

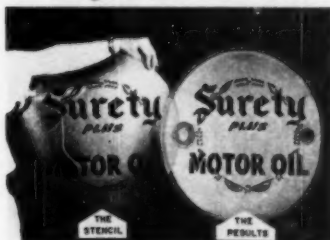
carriers, engine stands, tractor drawn trailers—both for power pulled and other rugged application. Other wheels in the line are 6 x 2, 8 x 2, and 10 x 2½ inches. The wheels are easy to demount. They are made of discs. One disc is welded to the hub while the other is slip fit over the hub. The disc is recessed around the nuts and bolts. Because of these small points of contact, the wheel can be taken apart with little effort. And the wheel is more rigid. Tire re-

placement is easy; it can be done on the job site with untrained personnel. The wheel can be used as a load wheel only, or as a caster.

The Rapids-Standard Co., Inc.

## Mylar Stencils Custom Designed

Now you can buy stencils in clear DuPont Mylar polyester film. You can get them either with stan-



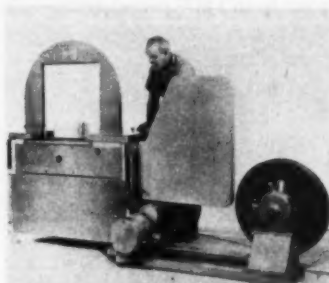
Circle No. 133 on Reader Service Card

dard machine-cut characters, or with special designs cut by hand. Either .0075 or .010 thick. They're flexible enough to conform to uneven surfaces and still give clean, sharp results. Mylar won't tear or scratch, and is impervious to inks and chemicals.

Diagraph-Bradley Industries, Inc

## Package Sizes Vary? Who Cares?

You can tie your biggest package and your smallest—or any in between—with the Model 2700



Circle No. 134 on Reader Service Card

Autobinder strapping machine. It uses ¾ or ½-inch flat steel strapping (.015 and .020), and can make up to 17 ties a minute. You select the tension you want, and this machine compensates to apply that tension to packages or all sizes. Model 2700 is fed from a 7500-ft. coil. It can be completely automatic or push-button controlled.

A. J. Gerrard & Co.

## Because this has what it takes...

The rugged durability and extra value (Timken tapered roller bearings in every wheel, spring loaded non-kicking handle, slide planes for easy pallet entry and 360° lifting radius as standard) of the REVOLVATOR Red Giant hand lift pallet truck (above) has built a reputation which means that...



Red Giant  
Hand Lift  
pallet truck

We were  
called on  
to do  
this...



Explosion-proof  
High-lift  
Go-Getter

One of six basic models... REVOLVATOR Series 54.00 Go-Getter for use in explosion hazardous areas for chemical and related companies with Class I Group D or Class II Group G hazards designed at the request of one of the country's leading safety authorities. This electric lift truck meets requirements for both hazards and utilizes screw type housings hydrostatically tested to pressures far beyond those required. Additional safety feature—hydraulically operated disc brake.

**Therefore:** Whether you need a standard piece of material handling equipment or specially designed equipment, call on

# REVOLVATOR CO.

8719 TONNELE AVENUE, NORTH BERGEN, N. J.

Circle No. 20 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

### Attachment For Quick, One-Man Handling

A device made to attach to the Huges-Keenan "Roustabout" crane permits quick, one-man handling of railway wheel assemblies. With the wheel handling unit, the Roust-

about pin-points the spotting of car wheels with all operations controlled by five separate hydraulic



Circle No. 121 on Reader Service Card

circuits. The unit will open and close grapple jaws, rotate or hoist grapple, and telescope, raise or lower the boom. The boom can be turned 90° in either direction.

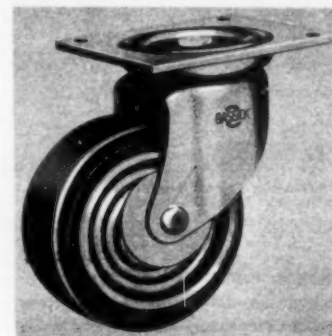
Huges-Keenan Div. of  
U.S. Air Conditioning Corp.

such as drum aisles. The drum can be tilted to any degree and held there. The unit lifts hydraulically to a height of 130 inches.

Big Joe Manufacturing Co.

### Shock Absorbing Caster

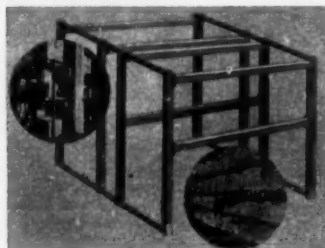
The Floating Hub caster provides shock absorption for loads between 50 and 150 pounds. The



Circle No. 124 on Reader Service Card

### Pallet, Skid and Die Rack

The All-adjustable Series 3200 combination pallet, skid and die rack has just been announced. The



Circle No. 122 on Reader Service Card

shelf beam is inserted and locked into the upright members. A Z-bar key is furnished for positive safety locking of all shelf beams. Shelf beams cannot be removed or become disengaged accidentally. When used for live storage, special leg levelers are furnished to give hair-line adjustment for smooth feeding.

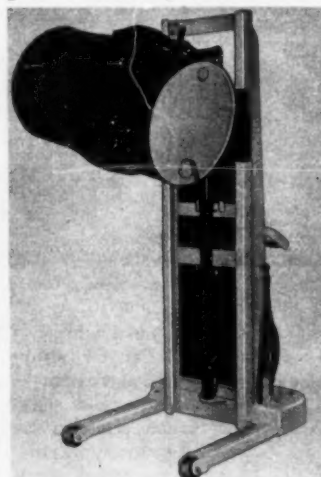
The Paltier Corp.

axle and wheel of the caster are supported by a spiral spring which allows the hub and wheel to float over bumps or depressions so that neither jolts nor vibration are transmitted to the truck.

Bassick Co.

### Drum Tilter

You can lift, move, stack and pour from 1,000 pound drums with

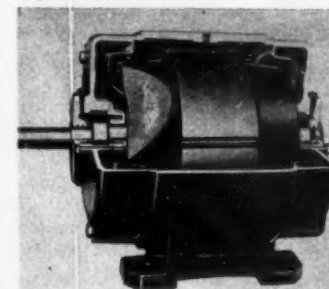


Circle No. 123 on Reader Service Card

this tilting machine. It is easy to push and position in close quarters

### Motors for Contaminated Atmospheres

Silicone-rubber Silco-Flex has been introduced in the line of Super-Seal motors. Manufacturer



Circle No. 125 on Reader Service Card

says this line makes possible substantial savings to users in the chemical, paper, petroleum, metals, and rock products fields, and wherever moisture, heat, dirt, dust, or other contaminants are a problem. Open-type Super-Seal motors rely on protective qualities inherent

### "THE ROLLWAY DOCK PLATE CUTS HANDLING COSTS!"



Precious time is saved on your loading dock with the all steel Rollway Dock plate. One man easily and quickly wheels it in and out of position. Handles and wheels fold completely out of the way when in use. Safety pins keep it from slipping. You get the advantage of a rugged heavy steel dock plate that can really take it . . . yet can be moved in seconds by one man.

... write now for illustrated literature and prices on the many different sizes and models of the Rollway Portable Steel Dock Plate.

Some Territories Open for Representatives

# WOODFORD MFG CO

1436 DELAWARE AVE.

DES MOINES, IOWA

Circle No. 21 on Reader Service Card

in the Silco-Flex system to withstand atmospheric contaminants.

*Allis-Chalmers  
Manufacturing Company*

## Add to Fittings Line

An adjustable tee and adjustable flange have been added to the Speed-Rail structural fitting line.



Circle No. 126 on Reader Service Card

According to the manufacturer, these additions make angle railing construction easier and faster. Construction with Speed-Rail fittings involves no threading or welding.

*The Hollaender Mfg. Co.*

## Fork Attachments For Tractor Shovels

Fork lift attachments for all of this company's Michigan tractor shovels are now available. Attach-



Circle No. 127 on Reader Service Card

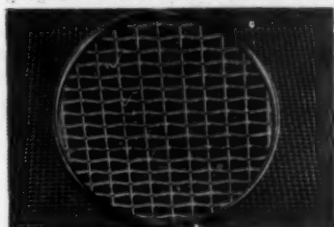
ments are designed for rapid installation on the job. By removing and reinserting four pins, the operator can switch from bucket to forks. There is no need to alter hydraulic connections.

*Construction Machinery Div.  
Clark Equipment Co.*

## Wire Cloth

An industrial wire cloth is brazed after weaving to prevent shifting

of the wires in installations where the material is subject to severe vibration. The specification is 8 x 8 mesh woven from .020 inch di-



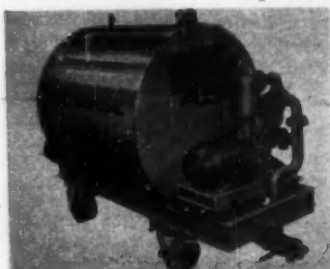
Circle No. 128 on Reader Service Card

meter T-304 stainless steel wire. The cloth is copper brazed at each intersection after weaving. According to the manufacturer, the brazed joints provide a rigid structure that blocks the shifting of the wire in any direction during service.

*The Cambridge Wire Cloth Co.*

## For Liquid Storage

Here is a portable liquid handling and storage unit. Liquids with or without solids in suspension,



Circle No. 135 on Reader Service Card

may be pumped in or out of the tank as required. When used on maintenance jobs the unit can handle sludge from sewer or processing operations. Tank's interior is treated to resist corrosion. The unit is adapted for trailer train operations. Capacities depend on tank sizes, which are made to suit requirements.

*Broen Metal Products*

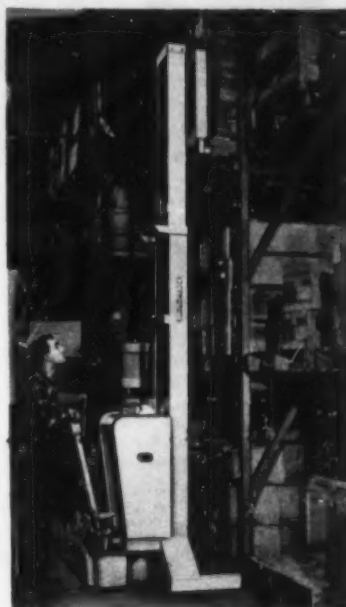
## 7000 Pound Tractor Shovel

The Model H-170, a four-wheel drive, rubber-tire tractor shovel, is in production. It will replace the Model HH Payloader. The H-70's gasoline and diesel engines provides from 105 to 110 hp. And improved weight distribution provides an additional 1,500 pounds of weight on the rear wheels for

LIMITED FLOOR SPACE SO...

# ...Stock Goes Up At B&H

WITH  
**Walkie.  
Worklifter**



Bell & Howell Company, world-renowned photographic equipment manufacturer, solved a common but troublesome storage problem—that of utilizing vertical "air" rather than horizontal floor space—with an Economy Walkie-Worklifter.

After reading the successful results, ask yourself if you haven't a similar problem that can be solved the same way—with equal success.

*from products through imagination*

*Bell & Howell Company*

Mr. Carl M. Rhodes  
Sales Manager  
Economy Engineering Company  
4511 West Lake Street  
Chicago 24, Illinois

November 18, 1957

Dear Mr. Rhodes:  
The Slide Projector Division of Bell & Howell is located in a portion of a building originally designed as warehouse space. The floor area for this division is limited, and consequently the maximum utilization of the high ceilings must be made in order to operate adequately. In our Assembly hold area we find that the use of the Walkie-Worklifter saves us many man hours of material handling, and enables us to fully utilize this valuable air space in the storage of our parts.  
The small size of the Walkie-Worklifter makes it ideal in operating in a congested area, and we find the fact that the unit is self-propelled an extremely desirable feature. In the seven months this unit has been in operation, we have used it constantly.

Very truly yours,  
*John F. H. Carter*

Production Control Mgr. Slide Projector Div.  
Bell & Howell Co.

Automatic lifter and transporter. Battery-operated with built-in charger. Push-button remote control. Automatic safety brake. Over 100 model variations. Lifting ranges up to 120". Baseframe widths from 26". Heights from 78". Capacities 1000 to 2000 lbs. Prices from \$995.

Write for detailed information.

Originators of materials handling equipment since 1901.

**ECONOMY  
ENGINEERING**

4504 W. Lake St., Chicago 24, Ill.

Circle No. 22 on Reader Service Card

## CUT MAINTENANCE COSTS



### Truck Line Terminals do --with DURABLE Dock Bumpers

One West Coast Truck Line is using DURABLE Loading Dock Bumpers as standard equipment in seven terminals.

Original installation in 1950.

Repeat orders — Six additional terminals equipped with a total of 306 Bumpers.

Complete satisfaction — No repairs — no replacements — no truck or freight damage — maintenance costs cut.

DURABLE Loading Dock Bumpers can give YOU this same trouble-free service.

## DURABLE MAT COMPANY

75 N. Pleasant St., Norwalk, O. • 755 Kifer Rd., Santa Clara, Calif.



### Self-Dumping Hopper cuts waste handling time 85%

It used to take two hours daily to handle waste at Newark Boxboard Co., Newark, N. J. Now one fork truck operator does the whole job in 15 minutes by using Roura Self-Dumping Hoppers. Five Roura Hoppers serve as waste receptacles, conveniently located. The fork truck takes them, one after the other, to the shipping dock. When he

flips the latch the load is dumped automatically. The hopper rights itself, locks itself, and is returned to its station.

Roura Self-Dumping Hoppers fit any standard lift truck. They're cutting costs and saving time in many different industries handling wet or dry, hot or cold bulky materials.

## ROURA Self-Dumping HOPPER



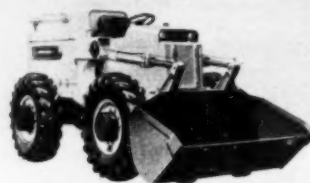
WANT MORE DETAILS? Attach this coupon to your letterhead and mail to

**ROURA IRON WORKS**  
1408 Woodland Ave., Detroit, Michigan

Circle No. 24 on Reader Service Card

## WHATS NEW IN EQUIPMENT

better traction and digging effort, says the manufacturer. A larger torque-converter in the H-70 is



Circle No. 136 on Reader Service Card

closely matched to engine and transmission characteristics. It is a single-stage, two-phase converter with a torque-multiplication factor of 2.272 to 1 at stall.

The Frank G Hough Co.

### Full Elevation in Less than a Minute

This line of portable magnesium yard ramps features manually operated hydraulic lift to full eleva-



Circle No. 137 on Reader Service Card

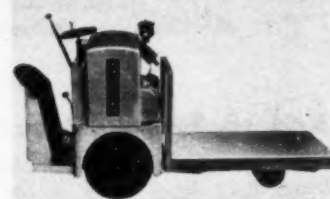
tion in less than one minute. This model weighs 1,951 pounds, has 12,000 pound capacity. Ramp can be easily moved and positioned by one man, according to the company.

Lite-Line Industries  
Div. of Copperloy Corp.

### Platform Truck Handles Skids

The Model "75" platform lift truck has a 7500 pound capacity for handling racks or skids. A feature of this model is the "No-Spin" differential that delivers power to both drive wheels; either wheel will drive the truck if the other is on ice, grease, or in a depression where it does not have traction. According to the company, the "75" has exceptional maneuverability. 74 degree steering wheel angularity on rear drive wheel provides for an outside turning radius of only

94 inches for operation in 66 inch wide intersecting aisles when equip-



Circle No. 138 on Reader Service Card

ped with a standard 28" x 60" platform.

Truck-Man Lift Trucks

### Loads Lumber in Freight Cars

The Model SD-22 Fowler Loader was designed for loading 2' x 2' packages of lumber weighing less



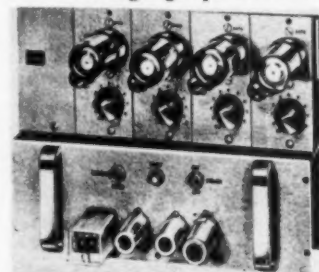
Circle No. 139 on Reader Service Card

than a ton through 6-foot wide freight car doorways. It will load 40-foot boxcars with a 6-foot wide door from one side of the car. It can be used on any lift truck with at least 8,000 pound capacity to lift lumber packages weighing less than a ton. The Loader's boom extends to 14 feet, pivots 5 feet ahead of fork face, swings 45-degrees each side of center.

Signode Steel Strapping Co.

### Electronic Counter

Tally-Count is a predetermining electronic counter which automatically controls any industrial process involving high-speed counting.



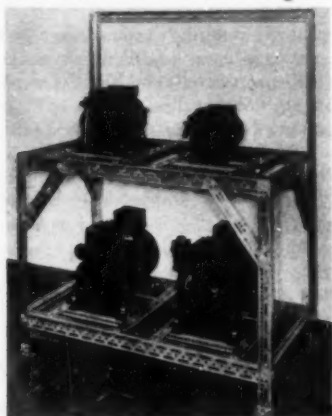
Circle No. 140 on Reader Service Card

It controls batching, machine cycling, sorting, material handling, packaging, and unit flow at speeds higher than 100 units a second. Tally-Count may be actuated by relay, photoelectric control, micro-switch, or even a toggle switch. Counting capacity of a 4-decade Tally-Count (used as a pre-determining counter) is 10,000.

*Standard Instrument Corp.*

## Slotted Angle Rack Kits Available

Slotted angle refrigeration rack kits are on the market, having been field tested in the refrigera-



Circle No. 141 on Reader Service Card

tion industry. These kits are of particular use for mounting compressors, condensers, and other refrigeration equipment. Manufacturer says that many refrigeration specialists have cut installation costs 75% by using these kits. Each rack kit contains enough pre-cut steel slotted angle pieces and bolts for complete assembly of the basic rack. Illustrated assembly plans are furnished with each kit.

*Acme Steel Co.*

## This Container Goes Anywhere Safely

When the Fold-O-Van is assem-



Circle No. 142 on Reader Service Card

bled, it forms a dust-proof, water-proof and pilfer-proof container for shipping by land, sea, or air. Knocked down, it is light and compact, for low-cost return freight. Fold-O-Vans are produced in 1/8-, and 1/2-van size or can be custom-built to your requirements. Flex-A-Skid base is optional. It can carry loads up to 10,000 pounds, protecting them to a predetermined fragility level.

*The Champion Co.*

## Bulk Carrier Has Built-In Scale

This portable bulk conveyor has a capacity of 1000 pounds and can be operated by one man. It



Circle No. 143 on Reader Service Card

weighs, carries, and discharges bulk granular material. Weighing is done by a built-in Fairbanks-Morse scale; this eliminates the need for stops at floor scales or the necessity for built-in scales at the hoppers.

*Suttle Equipment Corp.*

## Heavy Duty Loader

The Model H-228-F heavy duty loader is mounted on a Ford trac-



Circle No. 144 on Reader Service Card

tor in the illustration, but it can be mounted on most low-silhouette tractors. Note that dumping can be done well over truck height.

*Superior Equipment Div.*



## NEW COLSON C/U LIFTER



## MULTIPLIES MANPOWER



## WITH SPECIAL LOW PRICE

NEVER BEFORE  
A LIFTER WITH ALL  
THESE FEATURES  
FOR ONLY \$179

Only 27 pounds of effort will lift loads up to 1000 pounds as high as 64 inches with this radically improved c/u halftoner lifter, with its new exclusive winch. Only the slightest push and it rolls easily and quickly on Pressweld casters specially designed for maximum mobility with minimum effort. Moves easily and smoothly over rough, uneven flooring... won't slip or skid on finished surfaces. Safety features... standard equipment—No Extra Cost... include positive locking platform safety device and foot-operated floor lock to keep lifter in place while loading and unloading.

Leader in  
material handling for  
over seventy years

## The Colson Corporation

A Subsidiary of  
Great American Industries, Inc.—Elyria, Ohio



## COMPLETE SAFETY DEVICES

Extra Strong frame  
80 inches over-all  
height for easy  
clearance

Your local Colson  
distributor can help you.  
Call him or write to:  
**COLSON CORPORATION**  
Special Products Division  
Somerville, Massachusetts

Plants in: Jonesboro, Ark., Elyria, Ohio,  
Somerville, Mass., and Toronto, Canada

Circle No. 25 on Reader Service Card

## the Right Combination... QUALITY



"the CHALLENGER"

\$397<sup>50</sup> complete

1500 lb. capacity

Model 1056—battery operated

## PRICE



"the DRUM  
HANDLER"

\$890<sup>00</sup> complete

1000 lb. capacity

Model 3062—battery operated

## SELECTION



"the TELESCOPIC 99"

\$699<sup>00</sup> complete

1000 lb. capacity

Model 99721—battery operated

## MORE THAN 80 BIG JOE MODELS

Hydraulic Handling for  
EVERY Department



**BIG JOE**  
Manufacturing Company

Sarrington Road  
Wisconsin Dells, Wisconsin

Circle No. 26 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

### Buggy With a Lift

A fork lift truck has been built on the chassis of a Whiteman



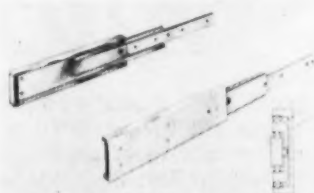
Circle No. 145 on Reader Service Card

Power Buggy. The unit will lift palletized loads up to 7'10" high. It will travel on narrow runways, turns in a 45 inch radius. It is powered by a 6.8 hp Wisconsin gas engine.

Whiteman Manufacturing Co.

### Slide Is Made Of Aluminum

The #4000 slide features ball bearing action, enabling it to



Circle No. 146 on Reader Service Card

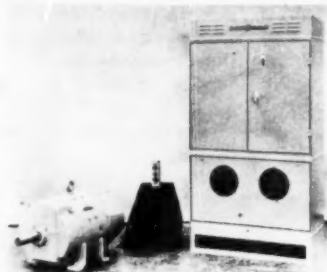
carry capacity loads easily. It is made of anodized aluminum for lightness, and is available in lengths from 10" to 40". Installation is simple because of the positioning of pre-drilled installation holes set at standard intervals.

Grant Pulley & Hardware Corp.

### Adjustable Speed Drive

The Par-matic adjustable speed drive employs power amplistat regulation to provide longer life and

greater reliability, says its manufacturer. This flexible 5-percent regulated drive unit is suited for industrial applications, ranging



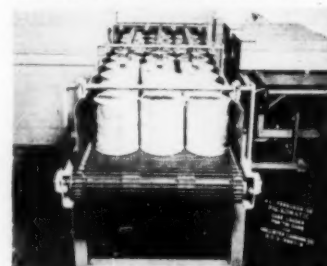
Circle No. 147 on Reader Service Card

from machine tools to pumps and conveyors. A feature of this drive is the static power unit consisting of silicon rectifiers and C-core reactors which make up the specially designed amplistat.

General Electric Co.

### Don't Just Load It— Transfer It Too

An automatic case transfer mechanism can now be added to Packo-



Circle No. 148 on Reader Service Card

matic case loaders. With it you can get speeds up to 20 cases a minute on lines where cases are hand-formed. It's designed mainly for constant can size, but can be adapted for changing sizes. Can be synchronized with existing packaging equipment.

J. L. Ferguson Co.

### Container for Granular Material

A cylindrical wirebound pallet box, the "Cylindri-Pak," is designed to handle, store, and ship free flowing granular bulk material. This container is made of tough, thin wooden sides bound with galvanized steel wires. Rigid plywood base is mounted on hardwood skids and equipped with a

special steel channel rim. Manufacturer says that this cylindrical design resists the outward thrust of free flowing material, thus pre-



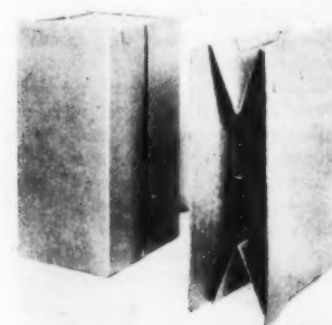
Circle No. 149 on Reader Service Card

venting bulging. The container gets stronger as it is filled, since the load presses outward and the wires contain the radial pressure. It is claimed that the container's ratio of tare weight to weight of contents is lower than any other in the field. For example, a 46-pound "Cylindri-Pak" is used for shipping 1200 pounds of resin.

General Box Co.

### Just a Flip of the Wrist

Super-fast setting up is the claim for fame of the Jiffy Box. It opens and is ready for use simply by pul-



Circle No. 150 on Reader Service Card

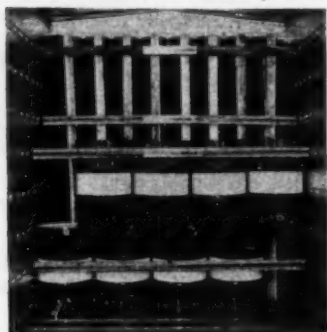
ling the sides apart, with a flip of the wrist. The bottom is pre-sealed. Top flaps are scored and cut. Jiffy boxes are available in many sizes and styles. They are also made in models suitable for bulk items.

Metro Corrugated  
Container Corp.

### Armor Plated Boxcars

Get top load protection with Republic Steel Corp.'s new steel-and-

wood rail car floor system. It's 35 percent lighter than all-steel, and lasts 5 times longer than all-wood. Nailing surfaces are common 2 x



Circle No. 151 on Reader Service Card

4's; can be replaced when they get chewed up. Strong enough to support 10-ton handling equipment. It is shown here with Youngstown Steel Car's anchor belt system, called Safe Cargo. Wall anchors are spaced in rows to suit the customer. Workers steel-strap cross-braces to them, holding loads in place neatly and securely. Walls have no protrusions; they are entirely flush for safe handling.

Republic Steel Corp.

## Truck for Limited Space

This fork lift truck has a capacity of 1,500 pounds on 18-inch



Circle No. 152 on Reader Service Card

load center. It is a rider type, only 50 inches long and 30 inches wide. It is ideal for appliance or department stores, grocery warehouses, or any place where space is limited, says the manufacturer.

Lectro-Lift Co.

## Pressed Steel Caster

The Bond 51-A series pressed

steel rigid truck caster is formed in one piece from heavy-gauge



Circle No. 153 on Reader Service Card

steel. In addition, the units incorporate a deeply embossed base and double formed ribs on the legs. A steel sleeve fits over the axle of the new series and is held rigidly between the fork members. This sleeve construction strengthens the caster and prevents wear on the axle by providing a larger axle bearing for the wheel.

Bond Foundry & Machine Co.

## Puts Pounds to Work

Each case is its own sealing weight with the portable case sealer just introduced by Standard.

**A COMPLETE LINE OF  
GENERAL PURPOSE  
BELT CONVEYERS  
engineered and  
standardized by...**

**MATHEWS**

**T**HESE General Purpose Belt Conveyers are furnished in a wide range of belt widths and section lengths. They can be assembled easily, for all parts are standardized and furnished from stock. The conveyers have several features which make them especially practical for the average package handling problem. The drive unit may be located at the end, or at any convenient point beneath the conveyor. End roller assemblies, takeups, and three-pulley devices are all standardized and easily installed.

Floor and hanger supports have a wide range of adjustment, and are especially convenient in situations where conveyers must be arranged to meet production requirements.



A reversible General Purpose Belt Conveyor serving parallel roller conveyor storage lines.



**MATHEWS CONVEYER COMPANY**  
GENERAL OFFICES . . . . . ELLWOOD CITY, PENNSYLVANIA  
PACIFIC COAST DIV. . . . . MATHEWS CONVEYER COMPANY WEST COAST,  
SAN CARLOS, CALIFORNIA  
CANADIAN DIVISION MATHEWS CONVEYER COMPANY, LTD., PORT HOPE,  
ONTARIO.

**MATHEWS**  
*Over Fifty Years of Leadership in Mechanized Handling*

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**3 TOP  
VALUES**  
From Among 80  
**BIG JOE**  
Lift Truck Models



**1**

"the PEDALIFT 21"

**\$199<sup>00</sup>** complete

1000 lb. capacity  
54 in. lifting height



**2**

"the 299"

**\$299<sup>00</sup>** complete

1000 lb. capacity  
57 in. lifting height  
Battery Operated



**3**

"the CHALLENGER"

**\$397<sup>50</sup>** complete

1500 lb. capacity  
57 in. lifting height  
Battery Operated



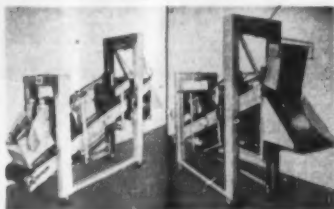
Hydraulic Handling for  
**EVERY Department**  
**BIG JOE**  
Manufacturing Company

Sarrington Road  
Wisconsin Dells, Wisconsin

Circle No. 27 on Reader Service Card

## WHATS NEW IN EQUIPMENT

The unit first glues the top flaps of cases, then gently turns the case



Circle No. 154 on Reader Service Card

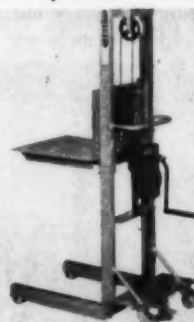
upside down so its own weight compresses the flaps as the glue dries. No compression units needed. The sealer is 3 feet wide, 9 feet long.

Standard Metal Products Co.

### Redesigned Lifter

The Type D Shoplifter has been redesigned to become the Type D, Mark II, which is a stronger, larger capacity lifter. Manufacturer says the redesign was combined with a reduction in price of the unit. The

capacity of the Type D Shoplifter, Mark II, has been increased from 500 to 750 pounds. This weight can



Circle No. 155 on Reader Service Card

be handled anywhere on the one-piece steel platform. Only 2 feet wide, the lifter can be handled easily in narrow aisles up to 54 inches.

Economy Engineering Co.

puts permanently embossed letters and numbers on corrosion-resistant monel, stainless steel, aluminum, copper, lead and vinyl plastic. You just dial the letter and



Circle No. 157 on Reader Service Card

squeeze the handle. In addition to stamping letters and numbers, the Midgie also punches holes.

Roovers-Lotsch Corp.



### ERICKSON AR-TIC-U-LATED PLATFORM TRUCKS

handle heavy loads with ease of 4-wheel steering

In the top photo, two concrete block racks ride tandem. That's 10,000 pounds that are hustled around at the "World's Largest Concrete Block Plant" in Arizona. Sharp turns and narrow aisles are easily handled with the Erickson Articulated Pivot Steering, even though the welded-together racks extend eleven feet in length.

In the lower photo, notice how 5,000 pounds of chain stays securely on the spring cushioned platform—no jolts or bounces to shake it off the skid. The Erickson astounds seasoned operators because of its ability to handle heavy loads with normal ease and speed.

Bulky, heavy loads move quickly and smoothly into the tightest places with Erickson Ar-tic-u-lated platform trucks. A heavy duty articulated pivot joins the platform to the power unit, giving the maneuverability of 4-wheel steering.

Load bearing wheels are directly under the load. This means maximum stability in a compact truck, unsurpassed for heavy loads in close quarters. Spring cushioned platform provides faster, surer handling. Capacities range from 5,000 to 20,000 lbs. with platforms up to 15 feet long. Lifts up to 9 feet are available in the Erickson Hi-Lift Platform Truck.

Erickson Ar-tic-u-lated platform trucks are rugged, long-lived, economical. They pay for themselves quickly. Send for your detailed illustrated Erickson bulletin today, and name of nearest distributor.

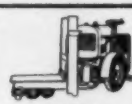
Erickson offers:  
Platform Trucks, 5,000 to 20,000 lbs. capacity  
Pneumatic Tired Fork Trucks,  
5,000 to 8,000 lbs. capacity

**Erickson**

POWER LIFT TRUCKS, INC.

243 St. Anthony Blvd., N.E.  
Minneapolis 18, Minn.

Circle No. 29 on Reader Service Card



PF Series  
Hi-Lift  
platform trucks



PL Series  
Kart-A-Lift  
utility trucks



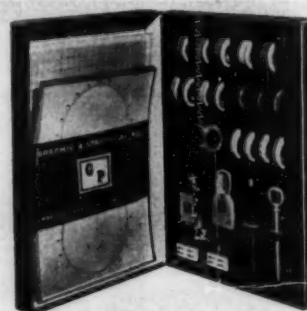
FW Series  
Utility  
fork lift trucks



FX Series  
Heavy-duty  
fork lift trucks

### Aids in Plant Layout Planning

A complete line of charting materials simplifies planning for plant layout. It includes pressure sensitive tapes, templet, planning boards, rectangles, and other



Circle No. 156 on Reader Service Card

items. These can be used as two-dimensional scale models in table-top planning. Complete catalogs covering organizational charting, statistical charting, operation and process flow charting, plant layout and office layout are also available.

Labelon Tape Co., Inc.

### Embossed Letters on Strapping

The Roovers Midgie labeler is a hand-operated tool that stamps raised letters on 1/2-inch straps. It

### Bulk Handling for Everyone

Companies converting to bulk handling but are not located on a rail siding can use the Dense-Flo bulk trailer to cure handling headaches. It will blow any dry powdered or granular material through



Circle No. 158 on Reader Service Card

pneumatic lines to storage bins hundreds of feet away. No mechanical conveyors or in-plant handling equipment needed. The trailer can unload 20 tons of material in an hour. Pneumatic blowing equipment is self-contained. In-plant handling costs are down because storage bins can be located at the point of use instead of near loading dock.

Albert Air Conveyor Corp.

### Imprint Your Own Bags

You can imprint your own multiwall bags with a machine introduced by IME. Buy bags blank from your supplier, and print any message on them in your plant. That eliminates the danger of bags becoming obsolete due to changes

Circle No. 30 on Reader Service Card



## POTDEVIN Label Paster

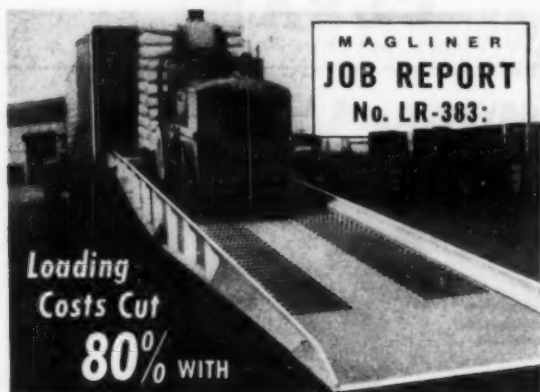
Time savings of 30% and more with unskilled operators makes your POTDEVIN Label Paster quickly pay for itself. No adjustments required for varied shaped labels. Accurate control of adhesive minimizes waste and assures clean, neat labeling.

Available in 6", 8 1/2", 12" and 18" widths.



**POTDEVIN MACHINE CO.**  
266 North Street • Teterboro, N. J.

Designers and manufacturers of equipment for Bag Making, Printing, Coating, Laminating, Gluing and Labeling



**MAGLINER  
JOB REPORT**  
No. LR-383:

Loading  
Costs Cut  
**80%** WITH

## MAGLINER MOBILE LOADING RAMPS

"Before installing our Magliner Mobile Loading Ramp," reports Mr. Leonard Wood, Plant Manager, Witco Chemical Co., "It took 16 to 18 manhours to unload a railcar from ground-level, and four manhours to unload a truck. Three men were required to handle each job. Now, one man and power truck handle a truck shipment in fifteen minutes . . . a railcar shipment in four hours. We figure our Magliner Loading Ramp paid for itself in six months, besides giving us extra safety for men, loads and equipment, and reducing our lift truck maintenance."

**ASK ABOUT THE MAGLINER PROOF POSITIVE PLAN**—See a Magliner mobile loading ramp at work, cutting costs right in your own operation.

Now Available! NEW NON-SLIP  
GRATING SURFACES FOR SAFE,  
SURE TRACTION IN ANY WEATHER

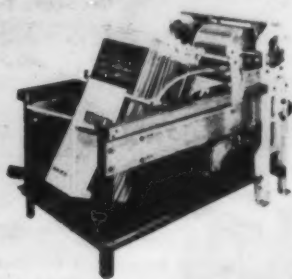
Another Magliner Exclusive!



Write for Bulletin DB-211, Magliner Inc., P.O. Box 401 Pinconning, Mich.

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in advertising copy, and simplifies bag inventory. This machine prints



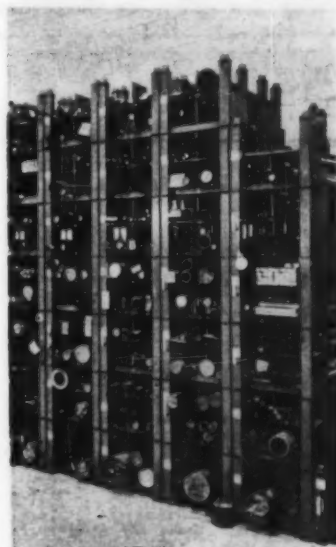
Circle No. 159 on Reader Service Card

20 multiwall bags a minute. It's fully automatic, and can run intermittently or continuously. Bag size is adjustable.

Industrial Marking Equipment Co.

## Storage Racks Feature Flexibility

Three new models of Mini-Module stock storage racks provide flexibility in storage of rod, pipe,



Circle No. 160 on Reader Service Card

sheet stock or other metal parts. The new models, identified as BS, CS and DS, enable the user to insert special shelves and/or 4-way dividers. Capacities range from 2500 lbs to 7500 lbs per unit depending on size. Special nesting caps permit stacking in vertically interlocked tiers.

Jarke Manufacturing Co.

Made  
for  
each  
other



New C & D AutoReg® Silicon Chargers plug into any standard single-phase, 15-amp, 60-cycle, 110 or 220-volt convenience outlet. Wall- or battery-mounted, AutoReg models charge any lead-acid storage batteries up to 660 amp-hrs.

New C & D AutoReg® silicon chargers—perfect power-mates for C & D batteries—plug right into standard electrical outlet. If the expense of rewiring has prevented you from taking advantage of modern material handling methods employing battery-electric trucks in the past . . . here's the new key to low-cost carrying efficiency for any size plant, warehouse, or shipping operation.

New C & D AutoReg® chargers—using a tiny silicon rectifier as the heart—are compact and automatic. The chargers plug into any standard electrical outlet. Simply turning on a timer places the charger in operation. You can walk away and forget it. No adjustments to make. No maintenance.

Powerful C & D Slyver-Clad® batteries—built to give extra muscle to your motorized hand trucks—are designed to give you long, dependable service. Coupled with the new, automatic C & D AutoReg charger, they represent the perfect power-mates for top efficiency in your material handling operation.

**C&D**  
**AutoReg®**  
Silicon Chargers

Write for detailed information:

Bulletin AR-100—describing new C & D AutoReg Silicon Chargers...

Bulletin 1T-527—describing time-tested Slyver-Clad C & D Batteries.



Since 1906

**C & D BATTERIES, INC.**  
of Benshoeken, Pa. . . . Attica, Ind.

Sales and Service Offices in Principal Cities from Coast to Coast

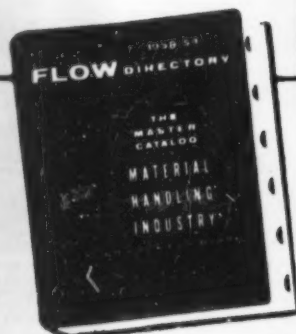
Manufacturers of Slyver-Clad® Industrial Batteries

PLANTILL and BATTERIES® Batteries for Communications, Control and Auxiliary Power • Producers of AutoReg® Silicon Chargers

\*Trademark

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## YOUR GUIDE TO BETTER HANDLING!



### THE MOST WIDELY USED REFERENCE IN THE MATERIAL HANDLING INDUSTRY

The only complete volume of authoritative information about material handling, packaging and shipping equipment and accessories. Its definitions are used as standard by all engineering societies, by virtually all associations, and by military and industrial groups.

#### SIX CONVENIENT, THUMB-INDEXED SECTIONS FOR QUICK, EASY REFERENCE:

- Equipment and Manufacturers
- Packaging & Shipping
- Engineering and Technical Data
- Trade Name Index
- Manufacturers' Outlets and Catalogs
- Where to Buy or Rent Equipment

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CLEVELAND 15, OHIO

Please reserve ..... copies  
of the 1958-59 Flow Directory  
@ \$7.50.

Check enclosed ..... ☐  
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Name ..... Title.....  
Company .....  
Address .....  
City .....

## WHAT'S NEW IN EQUIPMENT

### Conveyor Is Portable

Fertilizer, feed, sand and other granular materials are handled by the F series of conveyors. They



Circle No. 161 on Reader Service Card

have a troughed belt and an agitator for conditioning lumpy material. Conveyors are mounted on an adjustable lift. Available sizes: 14 and 16 inch belts, lengths from 18 to 40 feet.

Chantland Mfg. Co.

### Pneumatic Bulk Truck

A lightweight "Economy" pneu-

matic bulk truck features a 9-inch screw conveyor with reinforced flights running the full length of the body. Unit also has full open-



Circle No. 162 on Reader Service Card

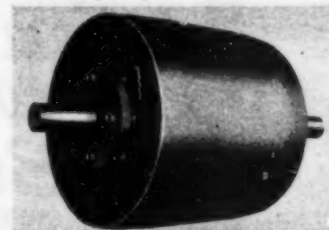
ing drop doors. Capacity is 504 cubic feet, with unloading capacities from 15 to 20 tons per hour.

Sprout, Waldron & Co. Inc.

### Round-Rimmed Pulley Gives Max Training Effect

An absolutely round-rimmed pulley with a single seam, 100 percent welded on both the outside and inside for maximum strength, the Curve-Crown Pulley, is pro-

duced under a new forming process. Pulley improves conventional



Circle No. 163 on Reader Service Card

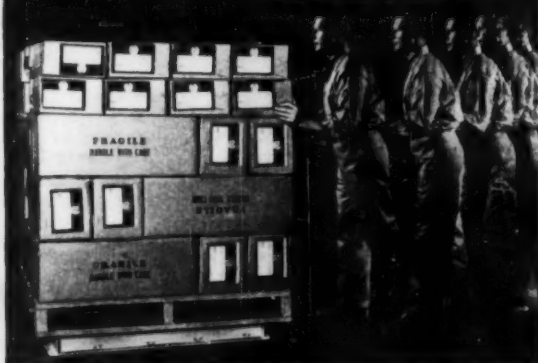
taper crown and flat-face pulleys design claims manufacturer.

Stephens-Adamson Mfg. Co.

### Solid Tire Gas Truck for Heavy Industry

Here is a line of heavy duty gas trucks for material handling in light metals manufacturing and other heavy industry. These trucks are 15,000 to 20,000 pound capacity, have solid tires. They're powered either by gasoline or LP-Gas. This truck line, called the G-5, features a nested channel assembly with an 11-inch outer section and a 9-inch inner section. The 15,000 pound model has 112-inch turning

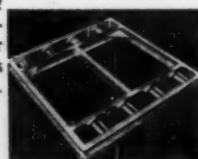
## Pallet Load **MOBILITY**



### ... WHEN YOU NEED IT... WHERE YOU NEED IT!

Magliner Magnesium Pallet Dollies keep pallet loads moving—stock movement fluid. They pay for themselves quickly by freeing men and power equipment from short-haul loading operations. Eliminate bottlenecks... lower loading costs!

Magliner pallet dollies are magnesium light, easily carried back to the loading point, fast—by one man! Large 3 1/4" rollers for free rolling movement. Rugged, welded construction for dependable long-life service. Capacities to 4,000 lbs. 14 standard models and sizes.



Write for Bulletin PB-1

MAGLINER INC., P. O. BOX 501, PINCONNING, MICH.  
Canadian Factory—Magline of Canada Ltd., Bellevue, Ont.

### MAGLINER MAGNESIUM PALLET DOLLIES

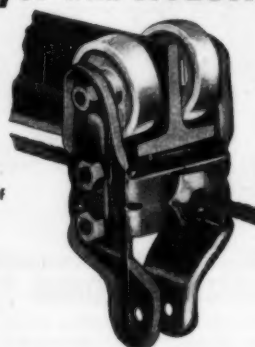
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## **CLEAN!** AMERICAN "Cable-Way" Conveyor with NYLON WHEELS

Open T-rail track and trolleys are easily cleaned, with water or air hose.

Adaptable for explosion-proof installations.

Nylon wheels are almost noiseless.



No grease drippings. Most installations require no lubrication. Others minimum amount. Can be water-lubricated.

Galvanized or stainless steel cable.

Operates in moist conditions with minimum of maintenance.

The American "Cable-Way" Conveyor with nylon-wheeled trolleys requires grease lubrication only on the motor drive and idler sprockets. All-bolted track and suspension system makes installation fast and easy. Low-cost and dependable. Handles loads up to 250 lbs. per trolley.

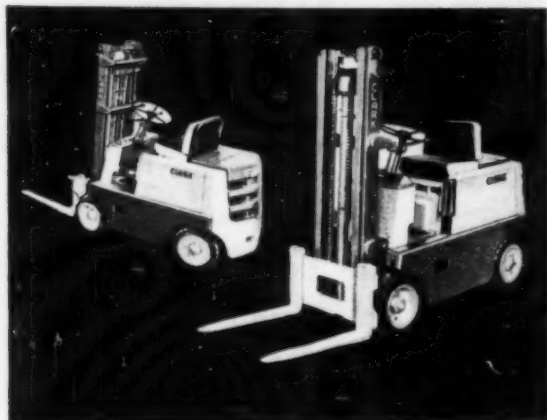


\*(Left) Steel wheels are also available for average industrial installations.

**CONVEYOR DIVISION**  
**THE AMERICAN MONORAIL CO.**

Fourth & Franklin Streets • Tipp City 18, Ohio

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## A Clarklift will lower your costs GIVE 30% MORE EFFICIENCY!

- \* You'll get over 30% more efficiency with a Clarklift
- \* You'll get automatic transmission . . . simplified, directional controls
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Judge for yourself. Send today for the new Clarklift features booklet. Simply use the reader service card, or write direct to:

**CLARK<sup>®</sup>  
EQUIPMENT**

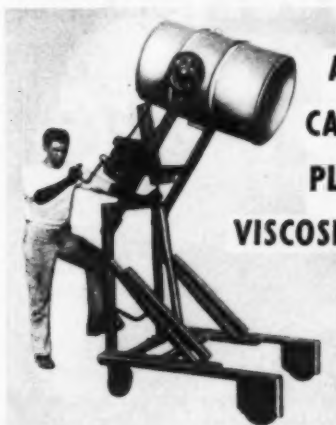
Industrial Truck Division  
**CLARK EQUIPMENT COMPANY**  
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OF

**ACIDS  
CAUSTICS  
PLASTICS**

**VISCOSE MATERIALS**



with the Model CP-1 Sterling Hydraulic Drum Lift. Be assured of self-locking and absolute control at any pouring angle.

Lifting capacity 750 lbs. Lifting height 72". For complete details and specification on the CP-1 model and other model Sterling Hydraulic Drum Lifts, write: Dept. H91

**STERLING, FLEISCHMAN COMPANY**  
P. O. BOX 88 BROOMALL, PA.

Circle No. 46 on Reader Service Card

radius, which is increased just one inch in the 20,000 pound model. Manufacturer says that all trucks



Circle No. 164 on Reader Service Card

in the G-5 line will maneuver with ease in and out of a standard railroad boxcar.

Yale Materials Handling Div.  
The Yale & Towne Mfg. Co.

## German Recorder Has U. S. Distributor

The Tachograph, manufactured in Germany, will now be distrib-



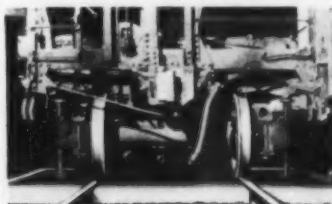
Circle No. 165 on Reader Service Card

uted by an American instrument manufacturer. The VDO Tachograph records vehicle operation in chart form, maintaining a permanent, accurate record for uninterrupted periods up to seven days of speed, mileage and whether the vehicle is moving or stopped.

Engler Instrument Co.

## Jack To Lift Railroad Cars

Jacking railroad cars off their trucks for "spot" system maintenance work in hump yards or on



Circle No. 166 on Reader Service Card

# The MARTIN-DECKER Sensater Hook Scale

**WORKS WITHOUT FRICTION  
AND WITH CERTIFIED ACCURACY!**



**"EMDEE SAYS"**  
CONSIDER THESE  
MARTIN-DECKER HOOK  
SCALE ADVANTAGES.

**EASY HANDLING**—Light weight and Compact. Full 360° Hook Rotation permits swiveling in any direction.

**MORE CONVENIENT**—Manual Tare Adjustment zeros-out grabs, hooks, chains, tote boxes, etc. Minimum Headroom Loss.

**EASY READING**—Adjustable Gauge can be tilted up or down. Dual Range Dial provides accurate distant and close reading. Entire Dial Circumference Calibrated for precise readability.

**SAFER**—Five-to-one safety factor allows ample overload margin. **LOWER IN COST**—Averages lower in price than hook scales of comparable capacities.

FOR FURTHER INFORMATION WRITE TO  
MARTIN-DECKER CORPORATION  
3431 CHERRY AVE., LONG BEACH 7, CALIF. DEPT. V-9

**MARTIN-DECKER CORP.**

Circle No. 37 on Reader Service Card

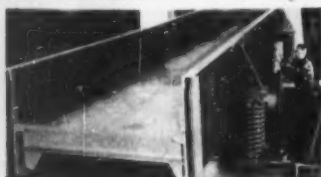
## WHAT'S NEW IN EQUIPMENT

rip tracks may be simplified by the recent development of a package jack arrangement. Cars requiring maintenance can be spotted directly over the recessed jacking equipment, and five-way controls position the car at desired height up to 60 inches.

Joyce-Cridland Co.

### Feeder Handles Ore

A heavy duty vibrating feeder handles ore, coal, rock, and other bulk material in lumps up to 4 feet in diameter at a rate of 300 to 3000 tons an hour. Manufacturer says it



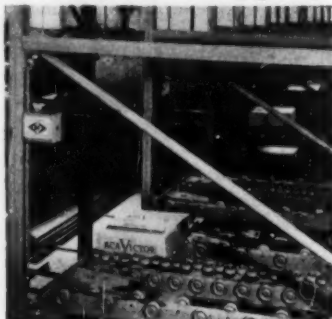
Circle No. 167 on Reader Service Card

is designed for economical operation with difficult conditions such as large lumps and heavy impact loading, severe abrasion, unusually sticky material, or heavy surge loads. The feeder is available in sizes from 3 feet by 8 feet up to 7 feet by 16 feet.

Hewitt-Robins Inc.

### Rail Design Permits Mixed Package Sizes

A new rail design for live storage racks permits mixing package



Circle No. 168 on Reader Service Card

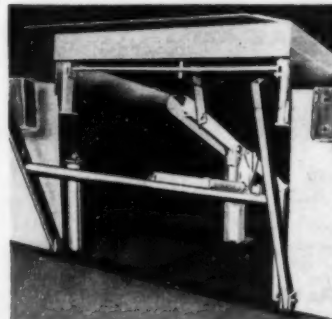
sizes in a lane. The "center" rail for each pair of lanes has wheels

which rotate on a horizontal plane. Conveyor rails on either side converge slightly toward the unloading end of rack, causing packages to constantly contact wheels on center rail. This permits wide latitude in package size for a single lane.

Alvey Ferguson Co.

### Dock Leveling Ramp Resists Harsh Impacts

Mechanical dock leveling ramps have been designed to resist



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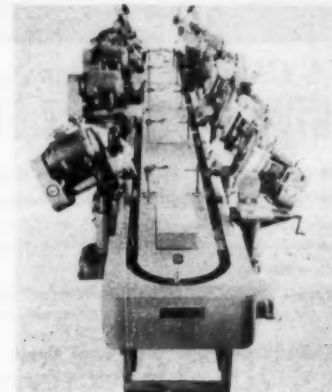
"crash landing" impacts. Platform of the mechanical ramp measures

8 x 6 feet. One end is hinged to the dock edge. The other end, with slanting lip section, projects outward and normally in an up-slanted position. The ramp is powered by the back-up push of heavy trucks moving into loading position against the dock. The ramp has a cross-over and roll-over load capacity of 20,000 lbs.

Globe Hoist Company

### Circuit Conveyor

This indexing type circuit con-



Circle No. 256 on Reader Service Card



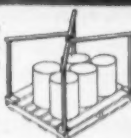
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adding to  
your warehouse?

Has it ever occurred to you that you may have sufficient space—if you can put it to proper use?

Let PALTIER trained Materials Handling Engineers take a look. With properly selected equipment and flow of materials your present storage area may be adequate! Storage equipment COSTS LESS than NEW FLOOR SPACE!

PALTIER STORAGE SYSTEMS are designed jointly by industrial architects, structural and materials handling engineers.

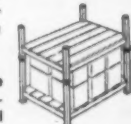
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Drive-In Racks for Bulk Storage



Portable Stacking Racks for practically every use



Adjustable and Fixed Pallet & Skid Racks

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Hand trucks, Trailers,  
4-wheeled Trucks

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Pallet, Steel, Storage, Misc.

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## CUT HANDLING COSTS with **HYTROL** Conveyors



All-purpose Model "A" with aluminum bed, reversible, adjustable tension. 8 sizes, 6 to 20' length.

- \* RUGGED
- \* COMPACT
- \* VERSATILE
- \* JOB-ENGINEERED

- Horizontal and Inclined Models
- All-aluminum and All-steel Models
- Portable and Folding Models, Built-in Models
- Table-Top Models for Assembly Operations
- Powered, Reversible, Hydraulic Elevating
- Complete Optional Equipment and Attachments

Let us help you choose the conveyor or conveying system that fits your needs. Engineering assistance at no obligation. Write for catalog.

**HYTROL**

Conveyor Co.

1963 S. 54th STREET

MILWAUKEE 14, WIS.

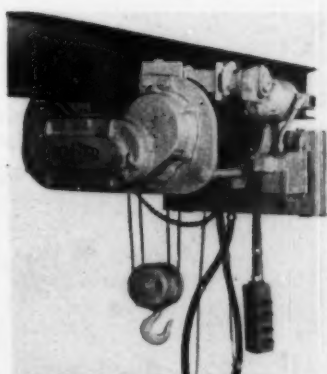
Circle No. 40 on Reader Service Card

veyor is used with type "L" and type "V" polishing and buffing head units on automatic installation. The conveyor is made sectional to permit future expansion or rearrangement and for ease in shipping. A complete conveyor would include a loading end section, a drive section, and a variable number of intermediate sections. Two strands of heavy duty roller chain running over double sprockets on vertical shafts in each conveyor end section provide the conveying medium.

Divine Brothers Co.

## Trolley Has Low Clearance Dimensions

Low headroom, end approach and side clearance dimensions are featured in the Lo-Hed electric wire rope hoist. The four-wheel motor driven trolley runs on special monorail track or standard I-beam. It is available on all Class A, B, H and J signal speed, two



Circle No. 257 on Reader Service Card

speed or variable speed heavy duty hoists with lifting capacities ranging from one to fifteen tons. The unit operates on all volages and frequencies of ac or dc current with push-button control.

American Engineering Co.

## Stencil Kit Makes Marking Easy

Stencils can be lettered quickly and easily with the Speedry Magic Marker Stenciling Set. The set con-

tains 76 individual letters, an easel of coated paper, masking tape, and



Circle No. 258 on Reader Service Card

the Stencilair. The ink is quick-drying, permanent, and will take to almost any surface.

Speedry Products, Inc.

## Transistorized Two-Way Mobile Radio

A two-way mobile radio, called



Circle No. 259 on Reader Service Card



5" lower than standard caster with same 500 lb. load capacity...

## New low-slung caster

Here's a 3" diameter wheel caster with a conservatively rated load capacity of 500 lbs. each, or 2000 pounds per set of four.

Especially desirable where low overall height is important, the caster raises load only 4 5/16" above the floor. It is designed for heavy business machines, and other heavy equipment that needs to be moved only occasionally.

Unusual strength stems from the very wide (1 13/16") tread of the "Canaphin" phenolic-canvas molded composition wheel. The new wheel is mounted in a super heavy Series "899" swivel caster. For further information, see your distributor or write to:

THE  
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BELLEVILLE, ONT.



Circle No. 41 on Reader Service Card

Lewis



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18 x 12 x 6  
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22 x 17 x 10\*  
27 x 16 x 11  
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39 x 19 x 14

\*New addition to the line.

WITH ACCESSORIES FOR GREATEST VERSATILITY



G.B.  
Lewis  
COMPANY

701 Montgomery St.,  
Watertown, Wisconsin

Circle No. 42 on Reader Service Card

## PAN COVERS

Molded of Fiberglass Reinforced Polyester in colors to match pans • Snug fit — keeps out dust and dirt • "Contour offset" for safe, high stacking of covered pans • Nest when not in use • Use as trays if desired • Popular sizes — fit the 22x14x8" and 27x16x11" Stack-n-Nest pans.

## DOLLIES

Molded of Fiberglass Reinforced Polyester in colors to match pans • Four heavy-duty, easy-rolling swivel casters • "Contour offset" for safe, secure stacking of pans • Quick, easy multiple handling and movement — loaded or empty • Rugged construction for big pay loads • Popular sizes — fit the 22x14x8" and 27x16x11" Stack-n-Nest pans.

STACK-N-NEST PANS PATENTED  
2,823,828 2,823,829

FOR EVERY JOB REQUIREMENT

# MAGLINER 4-WHEEL TRUCKS

• Magnesium • Aluminum

Lightweight!

Maneuverable!

Ruggedly Built!



WHICH OF THESE MAGLINER TRUCKS WILL SAVE YOU MONEY? Lightweight Magliners for heavyweight jobs—that's the trend! Plants... warehouses... stores... delivery work—whatever the application... costs go down with Magliners on the job! Check into the money-saving advantages of Magliner 4-Wheel Trucks for your operation... get a Magline quotation before you buy.

Write for illustrated  
bulletin on any  
of above models



MAGLINE INC. • P. O. Box 241 • Pinconning, Mich.  
Canadian Factory: Magline of Canada, Ltd., Toronto, Ontario

Circle No. 43 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

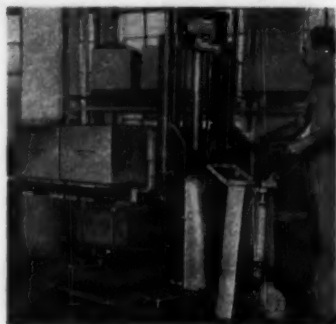
Motrac, has completely transistorized receiver and power supply and a partially transistorized transmitter. More than 20 transistors are used. Printed circuitry, modules and die cast construction are used throughout the unit. The radio measures 3 x 11 x 17 inches. It draws 1.82 amps. This new unit is available for operation in both the low (25-54 Mc.) and the VHF (147-174 Mc.) frequency bands.

*Communications and Industrial Electronics Div., Motorola, Inc.*

## Hydraulic Drive for Hand-Propelled Trucks

A power attachment for propelling portable elevating trucks and similar wheeled devices can be mounted on almost any truck containing a battery-powered hydraulic lift. Called Load-Jockey, the

2000-pound capacity unit has a wide-face, rubber-tired driving wheel with a built-in hydraulic



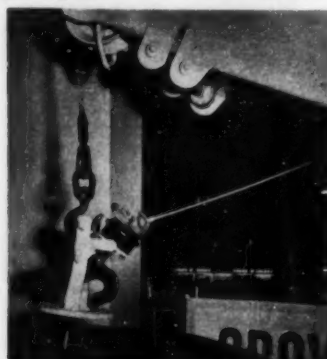
Circle No. 275 on Reader Service Card

motor. The attachment embodies a control and steering handle designed and mounted so that its normal position is "off." The handle, when moved forward or backward, causes the truck to be propelled in the direction the handle is moved. The truck cannot back the operator against the wall or other obstruction and cause injury. Any pressure on the handle will automatically return it to the "off" position.

*The American Pulley Co.*

## Crane Handles Rubber Tanks

This crane uses a special hook arrangement to handle large rubber containers.



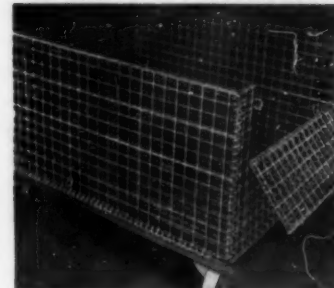
Circle No. 276 on Reader Service Card

This hook is closed by compressed air switched on by the operator. The hook opens when there is no load on it. The air line keeps the hook lined up straight under the boom, but the ring is so designed that it will pick up a bin even if the eye is at right angles to the boom.

*Grove Manufacturing Co.*

## Collapsible Wire Container

A wire container, called Cargo-tainer, is a heavy duty collapsible unit suitable for loads from 500



Circle No. 277 on Reader Service Card

to 5000 pounds. Base is of 2 x 1½ x 8-inch channel with two cross members of same specifications connected to two transverse channels. Legs have self-centering stacking cup.

*Tri-State Engineering Co.*

## Lightweight Centrifugal Pump

A lightweight, self-priming, port-



## FREE LAYOUT SERVICE

assures better storage facilities for less money

Find out how to store more stock in less space... how to make maximum use of each unit to reduce equipment investment... how to arrange units for fastest stock handling... proper width of aisle... location of packing benches, and other valuable data by using Equipito's FREE LAYOUT SERVICE. Profit by the aggregate experience of trained Equipito engineers who have designed hundreds of layouts of every description.

For simpler layouts, or for those who wish to design their own facilities, Equipito offers a fact-crammed free booklet entitled, "How to Solve Your Storage Problems."

Write today for your copy of booklet or advise when our layout engineer should call.

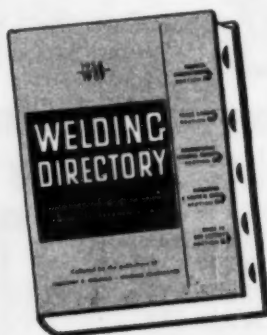


**Equipito**

Division of Acme Equipment Co.  
306 Prairie Ave., Aurora, Illinois

Steel Shelving... Parts Bins... Drawer Units... Lockers... Carts... Work Benches

Circle No. 44 on Reader Service Card



## WELDING DIRECTORY

812 Huron Rd., Cleveland 15, Ohio

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**WIPCO WIRE PARTITIONS**

**THE LAST WORD IN FLEXIBILITY**

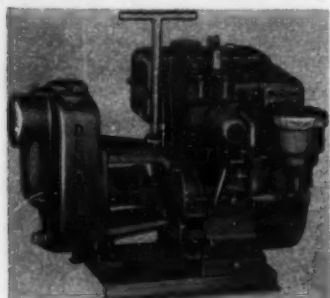


WIPCO woven-steel wire partitions are designed to fit any area, regardless of height, location of doors and other openings, etc. Easy and economical to erect, your own men can put them up without outside help! Use them over and over again, salvaging each individual section for use in new erections. Available in standard sections from stock—or custom-built for any requirement, WIPCO partitions are easy to paint and clean—require little or no maintenance! For increased efficiency and flexibility at lower cost, get the facts on WIPCO wire partitions!

**Write Today for Bulletin P-55!**  
**WIRE & IRON PRODUCTS INC.**  
1721 SIXTEENTH STREET, DETROIT 16, MICHIGAN

Circle No. 45 on Reader Service Card

able centrifugal pump is on the market. Powered by a Briggs & Stratton engine, the pump is made to meet the requirements of handling liquid fertilizer. Called the Fig.



Circle No. 278 on Reader Service Card

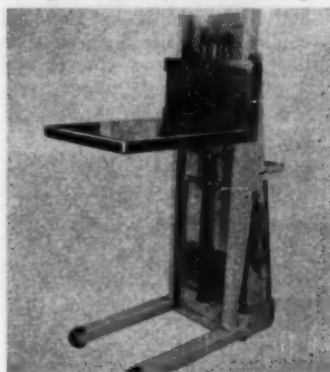
3307, the pump has been field-tested. Manufacturer says its 2.25 hp, 4-cycle engine will insure reserve power when pumping solutions weighing as much as 11 or 12 pounds per gallon.

The Deming Co.

## For Intermediate Handling

These lightweight portable elec-

tro-hydraulic elevators are designed for versatility in intermediate handling operations. The line has platform lift, fork lift, hinged,



Circle No. 279 on Reader Service Card

telescopic, and drum handling models. The line was developed to answer the requirements of small plants and individual departments in large plants for a portable elevator that can move, stack, or lift in close quarters. Each unit has its own overnight battery charger, which plugs in to any 110 volt AC power circuit.

West Bend Equipment Corp.

Circle No. 47 on Reader Service Card

**SAVE!** replace hand truck tires easier, faster for less cost



## with Nutting Demountable RUBBER TIRED WHEELS

You don't have to buy expensive complete new wheels when tires are worn! Bolted assembly permits tire replacement in minutes—No special tools!

Next time you need new wheels, casters or trucks, change to Nutting Demountables. No stretch or creep under severest service—and only Nutting, pioneers in the field, has sizes and capacities for every type of truck or trailer.

For details and a representative listing of the most complete floor truck line in America write for Bulletin 'D' and Junior Catalog 58-G.



Junior Catalog 58-G

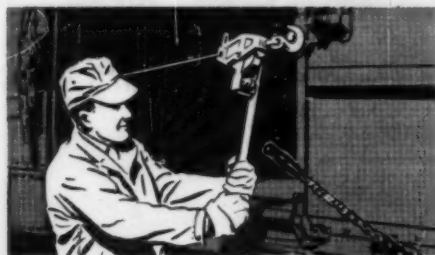
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## LUG-ALL® CAR DOOR PULLERS

OPEN AND CLOSE BOX CAR DOORS  
**EASILY and SAFELY**



**FEATHERLIGHT-RATED PULL 3000 LBS.**  
MODEL HDR 12 \$3975 MODEL HDR 30 \$5600  
(WEIGHS 11 LBS.) (WEIGHS 15 1/2 LBS.)

FOR FACT. The tested and user approved LUG-ALL Car Door Puller enables one man to do the job safely and quickly. Your man will like these units as they are lighter and easier to handle than any other equipment available for this work.

### Features

**STURDY CONSTRUCTION**—Rugged main frame protects drum and ratchet teeth. 133 strand aircraft cable for maximum strength and flexibility.

- Interlocking pawl system—cannot slip.
- Only two springs—both of stainless steel.
- Oiled-for-life bearings—no service required.
- Open construction—easy removal of mud, sand or ice.

**ASSURED SAFETY**—LUG-ALL Car Door Pullers are tested to 100% overload. The "safety handle" bends before the unit is severely overloaded.

**LONG REACH**—The Model HDR 30 will open 50 ft. box cars from the end of the car.

**FLEXIBLE**—Rig double or single cable.

WRITE TODAY FOR MORE INFORMATION

**THE LUG-ALL COMPANY, HAVERFORD 30, PA.**

Circle No. 36 on Reader Service Card

## MORSE Model 80 Barrel-Lift

Now... one man can safely handle liquid drum loads from 500 to 1,000 lbs.—raise, rotate, transport, tilt and drain 55 gal. drums. The mess, expense and hazards of spills, leaks, overflow and drum damage are eliminated. Sturdy, all steel welded construction... rubber tired wheels with ball bearings and rubber tired rear caster.



## MAN • MINUTE • MONEY SAVERS!

### MORSE Model 85 Drum-Karrier

Provides complete control. Easy one-man operation. Attaches to any monorail hoist... for all double chime drums 23" in diameter, 36" in height. Positive tilt locks hold drum in vertical position for carrying... provide control of tilt for mixing or dispensing. All steel welded construction.



Clip this ad to your letterhead



**MORSE MANUFACTURING CO., INC.**

799 West Madison Street, East Syracuse, N. Y.

Circle No. 66 on Reader Service Card

## New Bulletin points out dock loading problems...

shows how to solve them!



### MAGLINE Inc.

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## SEND FOR YOUR COPY NOW!

Now! Take advantage of the experience of others in solving your dock loading problems! New, illustrated bulletin points out many of the common, and uncommon conditions that slow down dock-loading operations—truck or rail—and build up excessive costs. On-the-job photographs show how typical problems have been successfully and economically solved—narrow car doors, reefer cars, restricted dock space, ground level loading, etc. Send for your copy today!

Canadian Factory: Magline of Canada, Ltd., Renfrew, Ont.



**DOCK BOARDS**

Circle No. 48 on Reader Service Card



Now... for the first time you can have big, really big wheels in quiet, long-wearing, easy-rolling floor-protective Texite.

Texite wheels are those tough, high capacity industrial wheels made of heavy macerated or chopped canvas, impregnated with phenolic resin and press formed under high pressure and temperature.

Immediately available, from Albion, in diameters from 3 1/4" to 16", tread widths from 1 1/2" to 4" and capacities all the way to 8000 pounds. Plain, roller or sealed bearings.



**Laminated Tread Texite Wheels**  
Even more durable than regular Texite, these wheels have continuously-wound tread with macerated centers. Highly resistant to chipping, fraying. Shock or impact resistance is 35% greater and safe loading capacities are increased 25%. Available in same broad range of sizes as regular Texite wheels.

**FREE CATALOG**—Albion's big, new 44-page catalog of Industrial Casters and Wheels is ready for your use and convenience. Write for your personal copy—Today!

**ALBION INDUSTRIES inc.**  
Albion, Michigan

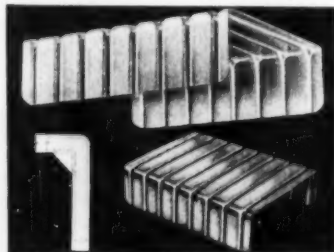


Circle No. 49 on Reader Service Card

## WHAT'S NEW IN EQUIPMENT

### Platform Has Knee Brace

This material handling platform has formed-in knee braces to eliminate cracking and leg folding under heavy loads.



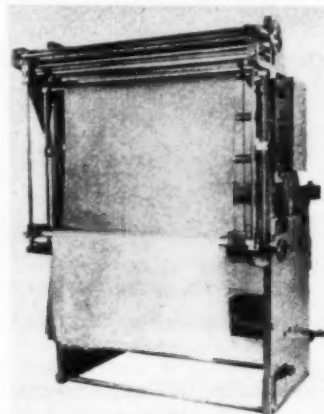
Circle No. 280 on Reader Service Card

der heavy loads. There is a brace for every corrugation at the bend in the platform. It is said that the knee brace also gives the platform greater rigidity and ability to withstand shock.

Powell Pressed Steel Co.

### Line Drums With Polyethylene Tubes

You can make large bags from both light and heavy gage polyethylene with the Walgran Drumliner. This allows you to make



Circle No. 281 on Reader Service Card

your own drum liners, or make bags for other packaging uses. The machine is vertical, and uses little floor space. One person can operate it easily.

Conapac Corp.

### Crane With High Mobility, Great Lift

The Koehring 305 Cruiser Crane was one of the stars of an equipment show in Milwaukee on Sept.



Circle No. 282 on Reader Service Card

8. Big features of the crane are: (1) Travel speeds up to 18 m.p.h.; (2) 25-ton lift capacity; (3) One man control of all operations while traveling or on the job. Booms up



**NEW**

**Now! Snail's pace to top speed  
...NO JARS, NO JOLTS!**

Clark's new Electric fork truck delivers smooth acceleration... provides the exact amount of power necessary for ramp and dock board work, for congested areas, when inching or stacking high loads. Clark's infinitely variable speed control delivers torque in just the right amount to suit working conditions... gives your driver perfect control of his truck at all times for maximum safety and efficiency.

For full details and specifications on the all-new Electric Clarklift, simply circle the reader service card.

**CLARK EQUIPMENT**

Industrial Truck Division  
**CLARK EQUIPMENT COMPANY**  
BATTLE CREEK 69, MICHIGAN  
CLARKLIFT is a trademark of Clark Equipment Company

Circle No. 50 on Reader Service Card



**EXTRA RUGGED**  
Exclusive one-piece curb with forged ends.

**EXTRA LIGHT**  
1/4 the weight of steel, 1/3 lighter than aluminum.

**Reduce Loading Costs  
WITH NEW B&P  
Magnesium Dockboards**

Lighter, stronger B&P Magnesium dockboards get the job done faster, easier and at less cost. All dockboards are heat treated for stress-relief after welding. B&P offers these advantages—one-piece stringer with forged ends, full-length hand grips, yellow curb markings, crowned contour, beveled edges, safety tread, wide range of sizes for every loading need.

**SEND FOR FREE LITERATURE** on long-lasting Magnesium dockboards, hand trucks and other mobile handling equipment by B&P.



**BROOKS & PERKINS INC.**  
1934 W. Fort St. • Detroit 16, Mich.  
Dealers in Principal Cities

MH-21

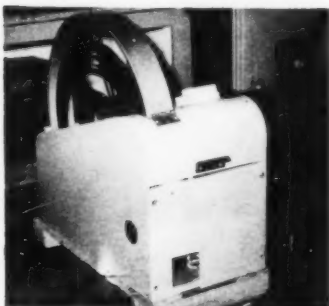
Circle No. 51 on Reader Service Card

to 100 feet can be used on the three-axle unit, with 15 to 30 foot jibs adding more reach for special high lift crane service. Travel with the Cruiser is easy because of a handy folding arrangement of the boom.

*Koehring Co.*

## Switch Strapping Sizes

You can switch from one strapping size to another with the Model 440 Bulkinder Dial-A-Band



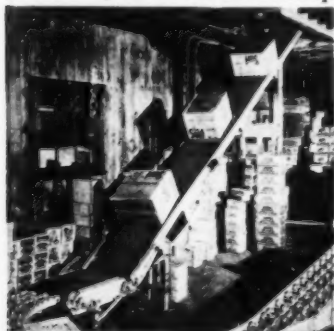
Circle No. 283 on Reader Service Card

powerized electro-air band dispenser. It handles  $\frac{3}{4}$ ",  $1\frac{1}{4}$ " and 2" flat steel strapping. Just set two dials for the desired length and number of straps. The Bulkinder does the rest. Use it to cut packaging costs for any kind of product or operation.

*A. J. Gerrard & Co.*

## Conveyor Belting For Steep Inclines

A cross-corrugated belt designed for inclined package conveyors, is particularly suited for use on steep



Circle No. 284 on Reader Service Card

inclines. Ribs in the "Ridgetop" package conveyor belt deflect under load and provide firm non-slip

grip on packages moving up inclines at angles of up to 45 degrees. Belting is offered in widths up to 48 inches.

*New York Rubber Corp.*

## For Industrial Lighting

Three models of the Lirelab lighting units are available: the industrial high bay unit, the flood-



Circle No. 285 on Reader Service Card

light, and the industrial low bay unit. These lighting units feature hermetically sealed silver reflectors, positioned in the back for maximum lamp output. Manufacturer says that Lirelab will deliver the same light intensities with a standard 500 watt incandescent lamp as you now receive with a 1000 watt incandescent lamp.

*Lighting Research Laboratories*

## Carrier Retrieves Loads from Storage

This mechanical storage system,



Circle No. 286 on Reader Service Card

called the "Retriever," is made up of an electrically operated traveling carrier, steel storage drawers, and a compact loading or transfer station. Material to be stored can be on skids or pallets, in bins or trays. The Retriever picks up the load, carries it horizontally and vertically to any desired area in the storage wall, and rolls it into a protected and dust-free drawer compartment.

*Triax Equipment*

## Experimental Tractor Power By High Speed Gas Turbine

What may be the tractor of the future is an experimental crawler tractor powered by a high speed gas turbine to replace the conven-



Circle No. 287 on Reader Service Card

## GRIPPER® woven wire SLINGS

here's SAFETY for any lifting job

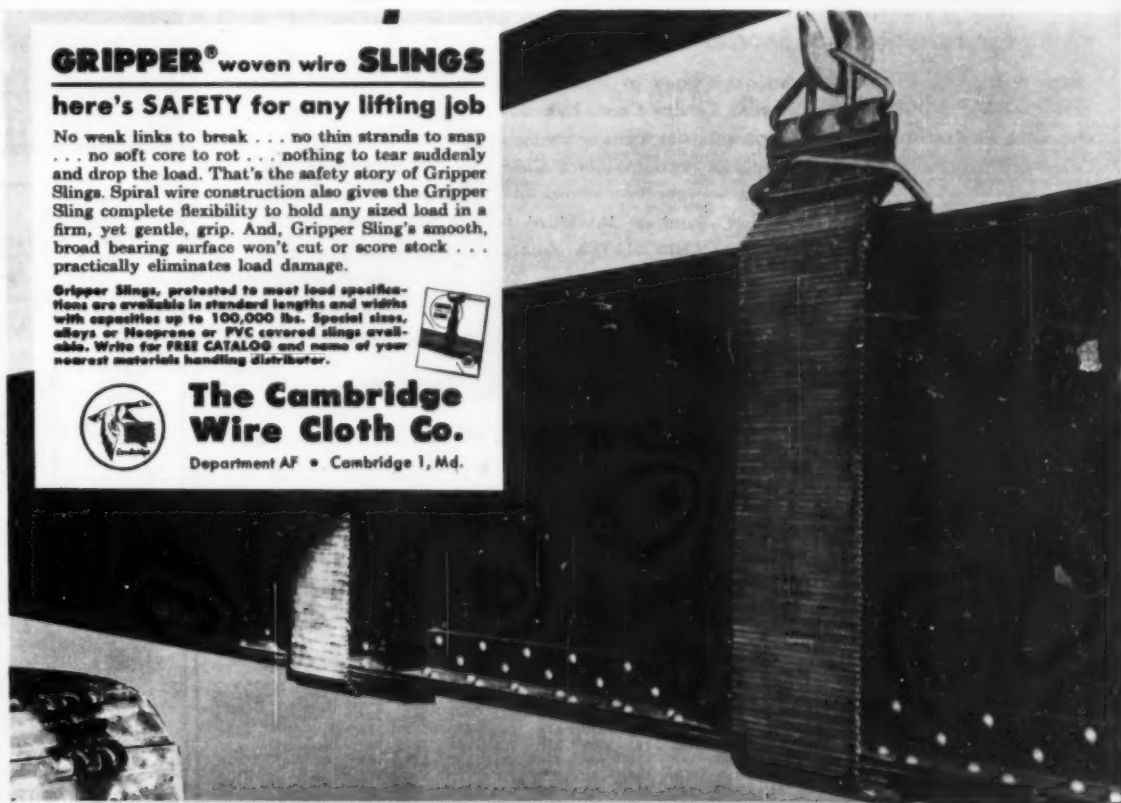
No weak links to break . . . no thin strands to snap . . . no soft core to rot . . . nothing to tear suddenly and drop the load. That's the safety story of Gripper Slings. Spiral wire construction also gives the Gripper Sling complete flexibility to hold any sized load in a firm, yet gentle, grip. And, Gripper Sling's smooth, broad bearing surface won't cut or score stock . . . practically eliminates load damage.

Gripper Slings, protected to meet load specifications are available in standard lengths and widths with capacities up to 100,000 lbs. Special sizes, alloys or Neoprene or PVC covered slings available. Write for FREE CATALOG and name of your nearest materials handling distributor.



**The Cambridge Wire Cloth Co.**

Department AF • Cambridge 1, Md.



Circle No. 52 on Reader Service Card

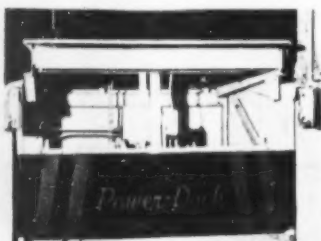
## WHATS NEW IN EQUIPMENT

tional diesel engine. The experimental model, named the P-91, and powered by a Boeing 502-10C, has been assembled for purposes of research. Net horsepower developed by the turbine to drive the tractor is said to equal that of its diesel counterpart.

Allis-Chalmers Manufacturing Co.

### Power Dock for Non-Level Areas

A recently introduced power



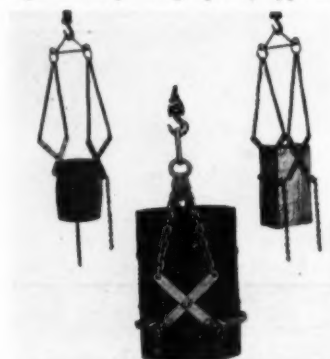
Circle No. 290 on Reader Service Card

dock is designed to compensate for out-of-level conditions. Model #9000 power dock has no fingers; the deck is not segmented or uneven. The ramp is solid front to back. It warps by special hinging mechanism, under the solid deck, plus and minus four inches from lateral level.

Hartman Metal Fabricators, Inc.

### Barrel and Box Grab

This barrel and box grab is designed for picking up any type of



Circle No. 291 on Reader Service Card

wood or steel barrel, box or container, from 40-inch diameter down to small nail keg size. Available in two standard sizes, the half ton and one ton.

Palmer-Shile Company

### Manual Crane Bridges Converted to Electric Drive

Bridge drive units, called Budget, can convert manually operated crane bridges to electric drive. The



Circle No. 292 on Reader Service Card

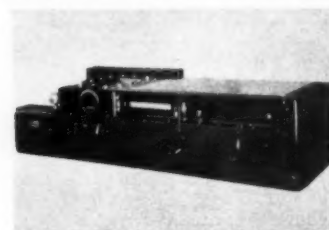
devices have been developed for job applications where even acceleration and braking are essential to keep load swing to a

minimum. The units can be installed on makes of cranes with spans as long as 55 feet and capacities through 10 tons. Models are available for 220, 440 or 550 volts. All units have a fully-enclosed speed reducer, squirrel-cage motor and magnetic contactor controller.

Manning, Maxwell & Moore, Inc.  
Shaw-Box Crane & Hoist Div.

### Belt Weigher Has Wide Range

A new belt (stream) weigher, called Pneu-Weigh, is available for



Circle No. 293 on Reader Service Card

continuous process industries for measurement and control of flow

### Can't Find the Reader Service Card?

Many readers have reported that their copy of MATERIAL HANDLING ILLUSTRATED sometimes arrives without the Reader Service Card. This may be caused by others in the plant who see the magazine first, tear out and use the card, and pass the magazine on. If this copy reaches you without a Reader Service Card, use this supplementary coupon to obtain additional information from the manufacturer on any advertisements, new equipment data, useful literature. Send to: MATERIAL HANDLING ILLUSTRATED, 812 Huron Rd., Cleveland 15, Ohio. CAUTION: This must be mailed first class in a sealed envelope.

JANUARY, 1959 do not use after 5-15-59 • MATERIAL HANDLING ILLUSTRATED

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Company ..... Kind of Business .....

Street .....

City ..... Zone ..... State .....

Please send me information and literature on items circled below.

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3	20	37	54	71	88	105	122	139	156	173	190	207	224	241	258	275	292
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6	23	40	57	74	91	108	125	142	159	176	193	210	227	244	261	278	295
7	24	41	58	75	92	109	126	143	160	177	194	211	228	245	262	279	296
8	25	42	59	76	93	110	127	144	161	178	195	212	229	246	263	280	297
9	26	43	60	77	94	111	128	145	162	179	196	213	230	247	264	281	298
10	27	44	61	78	95	112	129	146	163	180	197	214	231	248	265	282	299
11	28	45	62	79	96	113	130	147	164	181	198	215	232	249	266	283	300
12	29	46	63	80	97	114	131	148	165	182	199	216	233	250	267	284	301
13	30	47	64	81	98	115	132	149	166	183	200	217	234	251	268	285	302
14	31	48	65	82	99	116	133	150	167	184	201	218	235	252	269	286	303
15	32	49	66	83	100	117	134	151	168	185	202	219	236	253	270	287	304
16	33	50	67	84	101	118	135	152	169	186	203	220	237	254	271	288	305
17	34	51	68	85	102	119	136	153	170	187	204	221	238	255	272	289	306

## Save with MYERS Standard & CUSTOM BUILT Trucks

2400

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**5,000 COMBINATIONS OF MODELS AND SIZES**

Write today for prices and specifications on the models shown here. Or write for illustrated folder showing more models. Or send us your specifications on custom jobs. Our prices are definitely competitive. Quality, workmanship and materials will stand most rigid comparison. Representatives in all principal cities. Fast service.

**MYERS TRUCK AND CASTER CO.**  
CAnal 8-2536 - Nashville 7 Tenn

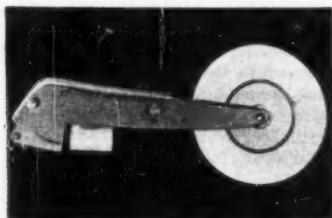
Circle No. 54 on Reader Service Card

of dry materials at low to medium rates from 0 to 3000 lbs. per minute. The unit operates over a 10-to-1 range, which can be converted to 50-to-1 by a variable speed belt drive.

Omega Machine Co.

## Do You Apply Tape By Hand?

The Strap-It tape dispenser makes it easy to apply strapping tape for sealing heavy cartons,



Circle No. 294 on Reader Service Card

unitizing loads, etc. It weighs only 16 ounces, is 12½ inches long and can be operated with one hand. It will take any roll of strapping tape up to 1 inch wide. Its blade is recessed; can't cause accidents.

A squeeze of the trigger cuts the tape.

Permacel-Le-Page's, Inc.

## Sanitary Metering Pump

This sanitary metering pump was designed for the food and chemical industries. Manufacturer



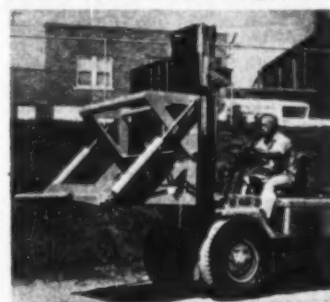
Circle No. 295 on Reader Service Card

says it provides high accuracy metering with discharge rates from 25 gpm to zero. The infinite range type shown in the photograph provides a micrometer adjustment which permits accurate rate settings. Once set, the discharge rate remains constant to provide accurate metering and proportioning.

Waukesha Foundry Co.

## End Loader For Low Clearance Jobs

An attachment for end handling of lumber has been designed for



Circle No. 296 on Reader Service Card

working in areas of low overhead clearance. Attachments are available on this company's lift trucks from 6000 to 15,000 pounds load capacity. Clamping action is achieved by placing a hydraulic cylinder on each side of the attachment's frame. Thus, overall height is only 38 inches. Maximum vertical opening of the device is 3 feet 8¾ inches.

Hyster Company

## Two-Way Radio for Walking Man

The "Handie-Talkie" pocket receiver and pocket transmitter were

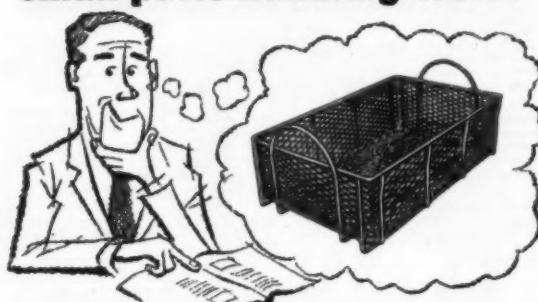


Circle No. 297 on Reader Service Card

designed for radio contact with the man on foot. The fully transistorized receiver (illustrated) picks up all radio signals on a system's frequency.

Motorola Inc., Communications and Industrial Electronics Div.

## Looking For A Way to cut small parts handling costs?



### EEZY-STAK BASKETS STOP EXTRA HANDLING, SPEED PARTS PROCESSING... REDUCE COSTS!

Here's how one manufacturer solved costly, time-consuming, small parts handling. Using EEZY-STAK standard wire baskets, a complete series of parts transfer operations was eliminated. Result: Five production processes now performed in one basket—degreasing, drying, pickling, rinsing, cyaniding—plus storage, without parts removal!

EEZY-STAK baskets have the exclusive, patented interlock handle, for easy stacking and compact storage. Open mesh construction. Full visibility... quick drainage... clean! From initial production to final assembly, EEZY-STAK baskets put small parts handling on an economical, low-cost basis. Cut Costs! Investigate the advantages of EEZY-STAK baskets for your plant!



Write today for Bulletin No. B-54 to Wire & Iron Products Inc., 1721 Sixteenth Street, Detroit 16, Michigan.



Circle No. 55 on Reader Service Card

## MLM BRIDGES THE LOADING GAP...



Safely!  
Easily!

MLM Dock Boards are LIGHTER... SAFER... STRONGER... BETTER BUILT

- Self adjusting for varying height of dock and truck bed.
- Exclusive Handholds formed with side-rails. NO CASTINGS!—NO WELDS!
- Safety-tread surfaces for maximum traction... minimum accidents.

LET MLM IMPROVE YOUR MATERIALS HANDLING REQUIREMENTS

Dock Boards • Yard Ramps • Light-weight Dollies • Pallet Dollies

BUILT TO YOUR SPECIFICATIONS!

Sales Territories Open  
Write today for complete information!



MODERN LIGHT METALS, Inc.  
Coloma, Michigan  
Phone: HOward 8-5041

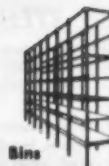
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Pallet Racks



Sheet Racks



Bins

RACK UP BIG SAVINGS...

Build your materials storage racks with

**NU-RAIL**

SLIP-ON FITTINGS and

Std. I.P.S. Pipe

## No Threading! No Welding!

NU-RAIL high-tensile aluminum fittings slip on the pipe, and the unique offset design permits as many as three pipes to pass each other without cutting.

Any man in your maintenance or warehouse departments can build sturdy racks with only a hex key and a hacksaw, using new or used pipe in standard I.P.S. pipe sizes. Completely flexible... adjust to meet changing requirements. 100% pipe salvage.

**The Hollaender Manufacturing Company**

Dept. M-17, 3841 Spring Grove, Cincinnati 23, Ohio

Circle No. 53 on Reader Service Card

## WHATS NEW IN USEFUL LITERATURE

Continued from page 14

2-lb., 5-lb., and 10-lb. bags—automatically. Average weight tolerance plus or minus two-tenths of an ounce.

Bemis Bro. Bag Co.  
Circle No. 216 on Reader Service Card

### Accumulating Tables:

Custom-built accumulating tables, stationary and rotary type, and custom-built conveyors are described in this bulletin.

Keenline Equipment Corp.  
Circle No. 217 on Reader Service Card

### How to Buy Adhesives:

There are 23 basic things you should know about your needs before buying adhesives. A recently introduced pocket-size folder lists the 23 questions you should ask yourself in order to get the best adhesive for your operation. This useful guide should be in all packaging departments.

The Arabol Mfg. Co.  
Circle No. 218 on Reader Service Card

### Peel Coat Protects Your Product:

Peel-It Weatherguard is the subject of a folder just published. This peelable plastic weatherproof coating comes in liquid form; can be sprayed, brushed, or dipped on any non-porous surface. When it dries it becomes a non-flammable, tough, and flexible coating. It is quickly removed by hand stripping when desired. It leaves no oily residue, discoloration, or odor.

Harco Chemical Co.  
Circle No. 219 on Reader Service Card

### Lift Tables:

This two-color bulletin details the features and operation of the company's three standard size lift tables. Capacities of the three tables are: 2000, 4000 and 6000 pounds.

Clark-Aiken Company  
Circle No. 220 on Reader Service Card

### Data on Automatic Cartoning Machinery at Your Fingertips:

Automatic cartoners, packaging machines, bucket feed cartoners, and carton glue sealing machines are the subject of a booklet just introduced. Includes specifications. A useful reference for packaging men.

Container Equipment Corp.  
Circle No. 221 on Reader Service Card

### Processing Equipment:

An eight-page condensed catalog, Bulletin 200, on processing equipment and systems is now out. The bulletin covers equipment for size reduction, size classification, mixing and blending, material handling, pelleting and densifying, pulp refining and digesting. Size ranges, connected hp, and applications for each type of unit are included.

Sprout, Waldron and Company, Inc.  
Circle No. 251 on Reader Service Card

### Tractor Shovel Data:

This 6-page brochure describes the company's Model 104 Trojan tractor shovel, a 1½-cubic yard unit. Complete specifications are given along with a list of standard and optional equipment.

Contractors Machinery Div.,  
The Yale & Towne Manufacturing Co.  
Circle No. 252 on Reader Service Card

### No Room for Strapping Tools?

Suspend them, says a booklet from Signode. And it tells how. New accessories increase operator efficiency by suspending the strapping tools in all conceivable positions, as well as adding portability. All requirements and operating specifications are described.

Signode Steel Strapping Co.  
Circle No. 253 on Reader Service Card

### Cartoning Manual Available:

Mechanical Cartoning Equipment Manual is available to packaging designers, consultants, and engineers. It provides a single source of cartoning information. Includes specification pages as well as up-to-date data on equipment and techniques; contains 120 pages.

Folding Paper Box Association of  
America  
Circle No. 254 on Reader Service Card

### Forming and Drawing of Thermoplastics:

This 4-page bulletin describes the company's past achievements and its capabilities in the field of vacuum forming thermoplastics. The firm is equipped to produce various formed plastic parts, also supplies and assembles backings, cord sets, electrical components, in suitable packaging, to suit customer requirements.

Gregstrom Corporation  
Circle No. 255 on Reader Service Card

### Directionally Operated Controls:

Circular 34-H is a 4-page bulletin explaining features and operating details of this company's Roto-Cam Control. The controls are used on electric "walkie" type materials handling trucks.

Lewis-Shepard Products, Inc.  
Circle No. 260 on Reader Service Card

## SAVE 50% ON YOUR ADDRESSING COSTS WITH AUTOMATIC ROL-FLO STENCILER

Whether you must stencil 5 cartons or 5,000 the ROL-FLO will give you uninterrupted performance.

Proper pressure on the squeezable plastic handle keeps the roller saturated and working perfectly at all times. Designed especially for those whose stenciling needs call for a greater supply of ink or where an ink pad can not be conveniently carried.

This means high speed stenciling at a saving of 50% for your production line addressing.

THE INK  
SUPPLY IS  
IN THE  
HANDLE



SEND FOR YOUR FREE  
COPY OF "HANDY HELPER"  
SHIPPING ROOM SUPPLY CATALOG

DIAGRAPH-BRADLEY INDUSTRIES, INC.  
P. O. BOX 269 HERRIN, ILL.

Circle No. 58 on Reader Service Card

## NOW ...The Easiest One-Man Drum Moving Ever!

### MORSE Model 55-0 DRUM CRADLE TRUCK

Low-cost and versatile, this cradle truck carries... rotates, manually... dispenses. Has side opening for drums with side drain cocks. Long wheelbase and retractable caster frame give exceptional stability under load. For 55 and 110 gal. drums. Circle this product for literature and prices.



### MORSE Model 150-R DRUM HAND TRUCK

One man can pick up a 1,000 lb. load... and balance it with one finger. Model 150-R features rubber tired wheels with ball bearings for quiet, easy rolling. Permits precise positioning of loaded drums. For drums 24" to 45" high and with diameters from 15". Sturdy steel construction. Circle this product for literature and prices.



Clip this ad to your letterhead



MORSE  
MANUFACTURING CO., INC.  
739 West Madison Street, East Syracuse, N. Y.

Circle No. 59 on Reader Service Card

Get all the Economies of Pallet Box Handling

## Use Generalift® Reusable Wirebound Pallet Boxes

Four industry-approved standard sizes fit in trucks and boxcars. Available from stock.

Sturdy reassembled wood and strong galvanized steel wire gives great strength.

Sturdy construction allows Generalifts to handle heavy bulk loads of 2000 to 3000 lbs.



Exterior cleats not only strengthen construction but leave interior walls smooth for more space.

Exclusive Generalift closure gives added strength, easily applied, permit quick assembly.

Hardwood skid base allows fork lift entry from all sides. Stacking lock feature available when desired.

With Generalift Wirebound Pallet Boxes you get a combination of advantages not available with other type pallet boxes. Generalifts are strong and sturdy to stand up to industrial usage.

### STANDARD INDUSTRIAL REUSABLE PALLET BOXES

Catalog No. Regular	Catalog No. Open-Front Bin-Type*	Outside Dimensions	Inside Dimensions
IR-L-24	IB-L-24	48 x 40 x 28½	45 x 37 x 24
IR-L-30	IB-L-30	48 x 40 x 34½	45 x 37 x 30
IR-S-24	IB-S-24	40 x 32 x 28½	37 x 29 x 24
IR-S-30	IB-S-30	40 x 32 x 34½	37 x 29 x 30

\* Gates available on order.

Expandable pallet box available. 41" x 35" x 29½" high, outside dimensions. 40" x 34" x 24" deep, inside. Weighs 59 lbs.

General Box

ENGINEERED CONTAINERS  
FOR EVERY SHIPPING NEED

There are 11 factories conveniently located throughout the country.

GENERAL BOX COMPANY  
1871 Miner Street, Des Plaines, Ill.

### Non-Skid Abrasive Ladder Rungs:

A 4-page brochure describes the uses and advantages of Relgrip non-skid abrasive ladder rungs which, the company states, last as long as steel and provide safe footing on ladders even when they are wet or oily. Complete data with illustrations will help user to determine his own applications.

Reliance Steel Products Co.

Circle No. 261 on Reader Service Card

### Vibrator Data Sheet:

A data sheet has been published on the small V-2 electromagnetic vibrator. This unit is designed to vibrate diminutive hoppers and tracks and chutes of processing, assembling, and packaging machines. The sheet gives complete listing of dimensions and specifications of three standard models.

Syntron Co.

Circle No. 262 on Reader Service Card

### Skin Packaging Is Fully Automatic:

A 4-page bulletin describes the Comet Quick-Pak, a high-speed low-cost skin packaging machine. It is designed for fully automatic operation. All operations are in one unit.

Comet Industries

Circle No. 263 on Reader Service Card

### Is Your Cushioning Obsolete?

Rubberized curled hair is available in protective pads tailored to fit your product. Resilient, durable, and in any shape, thickness, or density. The answer to many packaging problems where other cushioning materials failed. Literature available.

Janesville Cotton Mills

Circle No. 264 on Reader Service Card

### Samples on Request:

Jet-Pak bags are now available in sizes and styles for premiums and novelties. They cushion, insulate, and are water-resistant. Quick and low cost. Mill representatives will provide you with samples for your product.

Jet-Pak, Inc.

Circle No. 265 on Reader Service Card

### Adjustable Stock Guiding Device:

A 4-page bulletin is available explaining this company's adjustable stock guiding device. Two sizes are made, Model 48-24 (48 x 24 inches) and Model 72-24 (72 x 24 inches). Capacity is 4000 lbs. on a stock table. Called the Eze-E-Feed strip-stock feeding table, the unit has a full 90 degree angular adjustment.

Bowling Green Manufacturing Co.

Circle No. 266 on Reader Service Card

### Uniform Magnetic Field:

An 8-page color bulletin describes the Indox V Ceramic Magnet Drum Separator. The ceramic material used in this separator produces a uniform magnetic field up to 40 percent more powerful than in ordinary permanent magnet units, the company states. The bulletin simplifies selection (three models offered) by means of detailed specifications and dimensions.

Stearns Magnetic Products

Circle No. 267 on Reader Service Card

### Electric-Powered Fork Truck:

Four-page bulletin provides complete operating and design specifications on Model F-45T3, a 3,000-pound capacity electric-powered fork truck. Pictures and truck dimensions and turning diagrams are all included.

The Elwell-Parker Electric Co.

Circle No. 268 on Reader Service Card

### Cutting Costs:

A new brochure, "100 Ways To Cut Material Handling Costs," is a special research report giving 100 tips on equipment, design and construction, conveying, storage, delivery, unloading, safety and the administration of a warehouse.

Manpower, Inc.

Circle No. 269 on Reader Service Card

Write for  
**NEW PRODUCTS FOLDER**  
with specifications

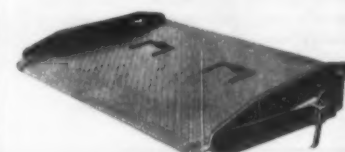
**ALL STEEL**



*Lifetime*  
**MATERIALS HANDLING  
PRODUCTS**

Designed by Materials Handling Engineers

Welded, all-steel EIW products will not crack or break as do materials handling products of comparable carrying capacities, thickness for thickness, made of weaker alloy materials. Since 1907 EIW products have been designed by experts to give a lifetime of trouble free service.



### RAMPS

SIZES AND STYLES FOR A VARIETY OF USES

"ONE MAN" BRIDGE RAMP  
15,000 lbs. capacity

"STAR" HAND TRUCK RAMP  
2,000 lbs. capacity

"MASTER" MEDIUM HAND TRUCK RAMP  
4,000 lbs. capacity

"REFRIGERATOR" CAR RAMP  
15,000 lbs. capacity

"FT" FORK TRUCK PLATFORM or DOCK RAMP  
4,000, 8,000 & 10,000 lb. capacities

"PT" PALLET TRUCK PLATFORM  
or DOCK RAMP  
4,000 & 8,000 lb. capacities

### YARD RAMP

15,000 lbs. capacity

### PALLET STACKERS

"MULTI-STAK"  
PALLET STACKER UNIT  
20,000 lbs.  
stacked static capacity

**ELIZABETH IRON WORKS, Inc.**

Materials Handling Specialists, Steel Fabricators,  
SINCE 1907

536 Green Lane, Union, N. J.

Circle No. 62 on Reader Service Card

### NEW LONDON

### "Moto-Belt"

CONVEYOR



- PRODUCTION
- ASSEMBLY
- PACKAGING
- INSPECTION

**LOW  
COST**

Hundreds of USES . . .

ADAPTABLE to practically ALL conditions!

BELTS: 2" to 18" wide; White Cotton or Stitched Canvas; Rubber or Neoprene; Plastic or Wire Mesh.

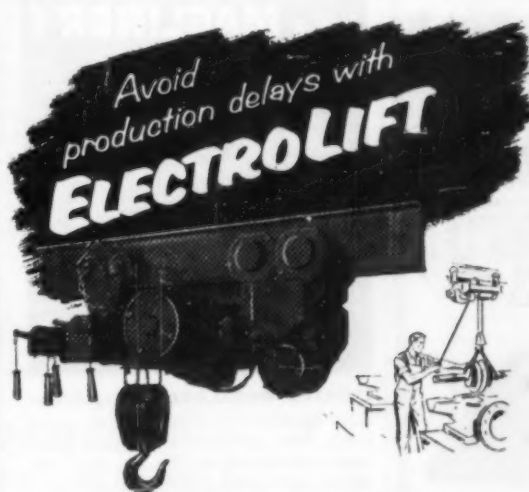
Variable Belt Speeds — Adjustable Stands — Side Rails — 10' sections up to 80' — Steel, Aluminum or Stainless Steel.

Investigate TODAY — Send for Catalog

**NEW LONDON ENGINEERING CO.**

DEPT. Q, NEW LONDON, WISCONSIN

Circle No. 60 on Reader Service Card



Insist on the superior hoist performance and maximum reliability that ElectroLift worm-drive hoists can give you. Capacities from 1/4 to 10 tons . . . minimum headroom required . . . superior braking . . . simple, rugged, and made with the best components and materials. Consult your local ElectroLift representative, or write for a complete catalog.

**ELECTROLIFT**

204 Sargeant Ave.,

Clifton, N. J.

Circle No. 61 on Reader Service Card

## WHATS NEW IN **USEFUL LITERATURE**

### Conveyor Belt Roller Guides:

Conveyor belt roller guides, called Guidlers, are designed on the hyperbolic principle. The hyperbolic groove, when tilted to a given angle, discloses a long area of contact between groove and belt edge, thereby diminishing the load on each square unit of belt edge. The bulletin's 8 pages of data gives engineering specifications and illustrates applications with drawings and photographs.

*Knapp Mills Incorporated*  
Circle No. 202 on Reader Service Card

### Crawler Tractor Data:

Operating advantages and engineering features of the HD-6 diesel powered crawler tractor are described in this 14-page catalog, number MS-1251. Numerous graphs and charts, views of the tractor's principal components and a cutaway view of the entire tractor are included.

*Allis-Chalmers Mfg. Co.*  
Circle No. 203 on Reader Service Card

### Chart Tells New Postal Rates:

Hang this chart in your shipping room and you can tell new postal rates at a glance. It lists all the revised rates including first, second, third, and fourth class mail, air mail, special delivery, special handling, certified and registered mail, and insurance fees. It's small enough for secretaries to keep in desks.

*Marsh Stencil Machine Co.*  
Circle No. 204 on Reader Service Card

### Explains Power Dock:

A brochure explains the workings of the retractable power dock, Model 6000. This unit moves in and out as well as up and down at the touch of a button. A full-page engineering diagram explains its workings. Specifications are included.

*Hartman Metal Fabricators, Inc.*  
Circle No. 205 on Reader Service Card

### Compressed Air Application Ideas:

The May bulletin, No. 20, of Production and Plant Ideas, describes many compressed air application ideas to save time and money for production and maintenance men.

*Gardner-Denver Company*  
Circle No. 206 on Reader Service Card

### Electrical Distribution Systems:

Bulletin No. 70 is a 32-page catalog giving information on heavy duty trolley busway electrical distribution systems. It illustrates the 225, 375 and 500 ampere systems for electrification of cranes and hoists, machine tools, conveyor assembly lines or other moving equipment.

*Feedrail Corporation*  
Circle No. 207 on Reader Service Card

### Offers Bulletin Folder:

You can get a folder in which to store the bulletins offered by this manufacturer. One such bulletin is an information sheet on the "Adjusto" reel racks for storage and dispensing. These racks can be as high as your ceiling or as high as your lift truck can reach.

*Bernard Gloekler North East Co.*  
Circle No. 208 on Reader Service Card

### Hydraulic Lift:

This four-page bulletin describes the company's "Hydro-Lift," a modern device for floor-to-floor transportation. Lift can raise or lower 750 pounds. Lift platform displaces only 94 x 56 inches of floor area.

*Hydrolift Corporation*  
Circle No. 209 on Reader Service Card

### Tractor Shovels, Backhoes, Fork Lifts:

Two bulletins are now available giving information and engineering data on this company's tractor shovels, backhoes for crawler tractors, utility loaders, bulldozers, tractor fork lifts. Complete specifications are given and all illustrations are in color.

*Henry Manufacturing Co., Inc.*  
Circle No. 210 on Reader Service Card

### Self-Supporting Jib Cranes:

A 4-page folder details information on pillar type jib cranes in capacities of 1/4 to 6 tons, designed to rotate 360 degrees for complete area service.

*American Chain & Cable Co., Inc.*  
Circle No. 211 on Reader Service Card

### Strapping Guide Fits Your Pocket:

A pocket-size catalog (SSS-209) gives useful information on standard and heavy duty strapping, hand and power tools, accessories, Colorgraph strapping, and lithographed seals. It's organized for quick reference, and includes tables and specifications. Properly used, it can help you improve your strapping operations.

*The Stanley Works*  
Circle No. 212 on Reader Service Card

## Reduce Material Handling Costs!



**USE MIRACLE TOTE BOX**


- SAVES SPACE—pulls flat for compact storage when not in use.
- SAVES TIME—sets up instantly...no staples, no tape, etc. required.
- SAVES SHIPPING COSTS—shipped flat for low freight rates.
- SAVES MONEY—costs less than 45¢ per box and they're REUSEABLE!
- RUGGED—double walled corrugated construction gives extraordinary stacking strength for space saving storage or warehousing. Double bottom will support all weight a man can carry.

**WRITE FOR DETAILS TODAY!**

**THE PAIGE COMPANY**  
314 East 32nd Street New York 16, N.Y.

Circle No. 63 on Reader Service Card

## It's a MAGLINER!



**Lighter Workloads!** Magnesium-light Magliners give you lighter workloads, more payload! They speed pick-ups, wheeling and loading... save time and manpower on every handling job.

**BUILT TO TAKE IT!** Magnesium strong! Over ten years of service-proved, rugged performance in factories, warehouses, on docks, wholesale routes, etc. There's a Magliner designed to meet your specific requirements. Over 200 models.

*Are you from Missouri?* Try a Magliner without cost or obligation. Check the classified directory in phone book or write for name of nearest dealer, and Bulletin HT-101.

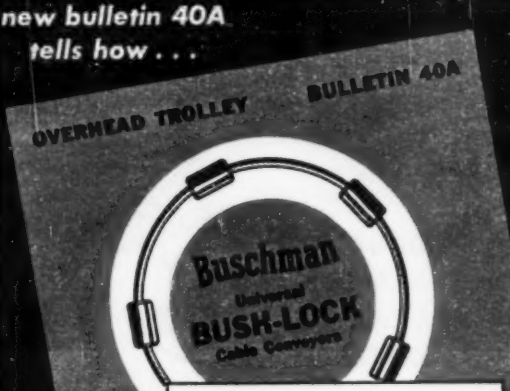
**MAGLINER INC.**  
P.O. BOX 371  
PINCINN, MICHIGAN

*Canadian Factory—Marine of Canada Ltd., Toronto, Ont.*

**Circle No. 64 on Reader Service Card**

## HOW TO CUT COSTS with CABLE CONVEYORS

**new bulletin 40A tells how...**



**GET YOUR COPY TODAY!**

Learn how you can save valuable floor space...cut maintenance costs... by using BUSH-LOCK Overhead Trolley Cable Conveyor Stock Components arranged to your exact requirements. Write for the new Bulletin 40A today!

**Every Way Better** **C-388-EWB**  
**THE E. W. BUSCHMAN CO.**  
4552 Clifton Avenue Cincinnati 32, Ohio

**E W B**

**CONVEYORS FOR EVERY INDUSTRY**

**Circle No. 65 on Reader Service Card**

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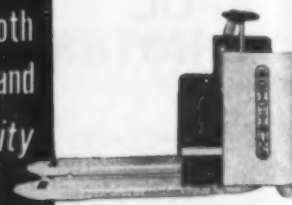
\*Additional Data and Catalog Included in 1958-1959 Flow Directory

## ACKNOWLEDGEMENTS

■ MATERIAL HANDLING ILLUSTRATED is grateful to the following for information and photographs used in this issue:

Brooks & Perkins, Inc.; E. W. Buschman Co.; Clark Equipment Co., Construction Machinery Div.; Clark Equipment Co., Industrial Truck Div.; Cushman Motor Works; Economy Engineering Co.; Elizabeth Iron Works; Euclid Div., General Motors Corp.; B. F. Goodrich Co.; Frank G. Hough Co.; Kalamazoo Manufacturing Co.; Link-Belt Corp.; Lite-Line Metal Industries, Div. of Copperloy Corp.; Magline, Inc.; Magnesium Company of America; Modern Light Metals; Prime Mover Co.; Rotary Lift Co.; Stephen-Adamson Manufacturing Co.; Victor Adding Machine Co., Electric Car Div.; Georg Von Opel Co.; Yale Materials Handling Div., Yale & Towne Manufacturing Co.

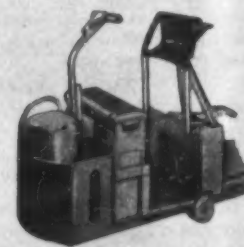
Get Both  
Speed and  
Maneuverability  
with...



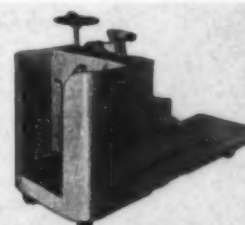
Ride-a-man Pallet Trucks



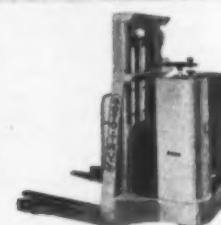
Ride-a-man Fork Trucks



Ride-a-man Tractors



Ride-a-man  
Platform Trucks



Ride-a-man  
Straddle Trucks

**MOTO-TRUC**  
"Ride-a-man" models

■ Only Moto-Truc offers this complete line of small battery powered, industrial trucks designed to permit the operator to ride.

Built to operate in narrow aisles and congested areas, they combine the light weight and maneuverability of a "walkie" with the speed and convenience of a large rider type truck.

Important too, is the fact that Moto-Truc "Ride-a-man" models are a real bargain . . . because they cost far less than larger rider type trucks of equal capacity.

In spite of their size, they provide a full eight hours of operation on a single battery charge and, like all Moto-Trucs they provide rugged dependability and low cost maintenance.

When you need a small rider type truck — pick a Moto-Truc!

\*"Walkie" type Moto-Trucs are also available in these same basic models.



SEND FOR CATALOG  
Get this catalog which provides full information on models, capacities and operating dimensions.



Largest Exclusive Manufacturers of  
"Walkie" and "Ride-A-Man" Trucks

**The MOTO-TRUC Co.**

1926 EAST 99TH STREET • CLEVELAND 2, OHIO

Circle No. 67 on Reader Service Card

## WHATS NEW IN USEFUL LITERATURE

### Need Conveyor Data?

Catalog 80 gives you details on the series L-M horizontal and inclined belt conveyors. It describes the complete line of L-M stock components, as well as describing how they can be customized to meet the requirements of any store, warehouse, or factory for a light-medium conveyor system.

*The E. W. Buschman Co.*

Circle No. 188 on Reader Service Card

### Batteries Easily Charged:

Thirty seconds daily suffices to put a battery on charge, this company's bulletin states, the only daily maintenance job most users of electric industrial fork trucks will probably ever have. Two minutes a day changes batteries for two-shift operations; three minutes per week handles watering requirements. Step-by-step photos and instructions show the recommended sequence for carrying out each of the operations.

*Exide Industrial Div.,  
Electric Storage Battery Co.*

Circle No. 189 on Reader Service Card

### Base Mounted Jib Crane Explained:

A detailed catalog sheet describes this base mounted jib crane. It includes an illustrated description of the crane construction along with an engineering drawing and table of dimensions. This provides the necessary information for the selection of crane capacity, boom length, and height of lift.

*Becker Crane & Conveyor Co.*

Circle No. 190 on Reader Service Card

### How to Improve Markings:

Here's a pocket-size folder that will tell you how you can save money, speed shipments by marking packages with stencils. Covers the complete Marsh line including stencil cutters, boards, brushes, and inks. Gives useful tips for the shipping room.

*Marsh Stencil Machine Co.*

Circle No. 191 on Reader Service Card

### Steel Mesh Containers:

Available in 4 specific standardized types, in a variety of sizes and capacities ranging from 2,000 to 6,000 pounds per unit, plus other data, is all presented in this 4-page bulletin on steel mesh containers, called Palletainers.

*Union Steel Products Co.*

Circle No. 192 on Reader Service Card

### Shows Loading Dock Bumpers:

A bulletin covers a line of loading dock bumpers. It gives you engineering drawings on bumper construction and specifications. Standard sizes are listed and installations photographs shown.

*Durable Mat Co.*

Circle No. 193 on Reader Service Card

### Industrial Wheels and Their Uses:

Catalog number 157W is devoted to information on industrial wheels. Illustrations and specifications for a full range of wheel types, sizes and with various bearings are shown for use in casters or independently on hand trucks, dollies, and other portable equipment.

*Faultless Caster Corporation*

Circle No. 194 on Reader Service Card

### Telescoping Belt Conveyor:

Described here is a telescoping power belt conveyor particularly suited for handling ice cream, or other frozen foods, where trucks with small doors are used. It's convenient for quick extension into freezer room or up, out of a sidewalk door for truck receiving or loading.

*Econ-O-Veyor Corp.*

Circle No. 195 on Reader Service Card

### 200 Jobs Described:

Handbook, illustrated with 200 on-the-job photographs, tells all about this company's equipment in 43-page presentation. Detailed explanations and drawings point up specific uses for conveyors and special-accessory equipment. Specifications and performance factors are cited with illustrations.

*The Rapids-Standard Co., Inc.*

Circle No. 196 on Reader Service Card

### Lifting Data:

Catalog No. 358 contains 6 pages of information on lifts—manually operated, battery operated, electric, and specially designed. Specials include a hinged lift, a "Dumpit" lift, lifts with drum stacking attachments.

*Lee Engineering Co.*

Circle No. 197 on Reader Service Card

### Magnets Eliminate Contamination:

An information sheet tells how these permanent grid magnets are designed to eliminate ferrous contamination in material such as grain, animal pellets, seeds, chemicals, foods, drugs, etc. Typical chute applications are illustrated. Construction details and model sizes are given.

*Magni-Power Co.*

Circle No. 198 on Reader Service Card



## ONE YALE TRUCK DOES THREE JOBS ECONOMICALLY

### K-46 EQUALLY EFFICIENT IN WAREHOUSING, ON LOADING RAMP, FOR MOUNTING AND DISMOUNTING OPERATIONS

**Compact!** Ideal for warehousing and other narrow-aisle operations.

**Maneuverable!** Perfect for loading and unloading trucks—for short cycle operations.

**Standup!** Permits frequent mounting and dismounting—gives driver clear view for loading operations.

**Electric!** Fumeless—more economical to drive and maintain—longer lasting.

**Magnetic Cam-O-Tactor!** Yale exclusive provides controlled acceleration and smooth travel.

**Capacities:** 2,000 and 3,000 lbs.

For full information call your Yale Representative or write for brochure #5112 to The Yale & Towne Manufacturing Co., Yale Materials Handling Division, Dept. KT 1-H, Philadelphia 15, Pennsylvania.

**YALE**

INDUSTRIAL LIFT TRUCKS  
TRACTOR SHOVELS • HOISTS

YALE & TOWNE

GASOLINE, ELECTRIC, DIESEL AND LP-GAS INDUSTRIAL LIFT TRUCKS • WORKSAVERS  
WAREHOUSERS • HAND TRUCKS • INDUSTRIAL TRACTOR SHOVELS • HAND, AIR AND ELECTRIC HOISTS

Circle No. 68 on Reader Service Card

### Aluminum Dock Board Data:

This 4-page folder gives information on special aluminum alloy dock boards. Seven types in 15 sizes of dock boards are available from standard stock. Length, width, capacity, weight, and catalog numbers are given for the six basic types of boards made.

*F. H. Langsenkamp Company*

Circle No. 199 on Reader Service Card

### Automatic Vacuum Lifts:

This illustrated brochure covers vacuum lifts for automatic production lines. It describes standard and special units, including one, two, four and six station lifts and combination lifts and stackers.

*The Union Tool Corporation*

Circle No. 200 on Reader Service Card

### Two Cubic-Yard Tractor Shovel:

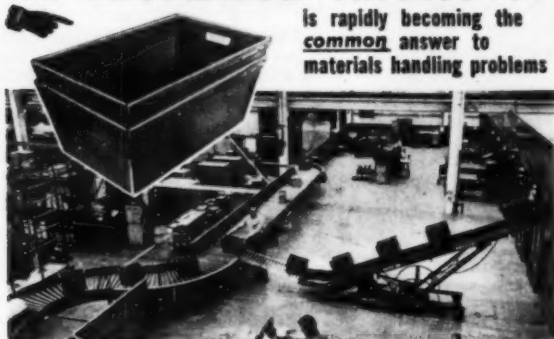
A 6-page brochure describes this company's two cubic-yard Model 154 Trojan tractor shovel. The brochure includes drawings and descriptions of operating benefits such as low load carrying position, independent bucket action, reverse curve safety arms, and straight-line horizontal thrust.

*Contractors Machinery Div.,*

*The Yale & Towne Manufacturing Co.*

Circle No. 201 on Reader Service Card

## This uncommon carrier...



HERE'S HOW DOUGLAS AIRCRAFT USES CONVOY #T-31 TOTE BOXES TO SPEED COMPONENTS TO ASSEMBLY

We make many standard size tote boxes . . . nesting, stacking and vertical sided . . . but we'll custom-make any box your product or use calls for.

Special sizes and shapes are economically produced by our "Chem-Board" process of rigidizing hi-test corrugated board to remarkable strength.

More and more famous name industries are using Convoy Tote Boxes. Try us.

**CONVOY, INC.**

CANTON 6, OHIO  
P. O. Station B, Box 216-Y



Greenwood  
7-4569

**FREE**

**1001  
TIME-SAVING  
IDEAS  
DUO-FAST  
STAPLE-TACKLING  
MANUAL**



What's NEW in automatic stapling and tacking? You'll find conclusive answers in DUO-FAST's new Staple-Tacking Manual. In its 28 colorful pages you'll find facts, photos and new application ideas on over 150 DUO-FAST models . . . including staple guns, hammer tackers, air tackers, stapling pliers, footpower staplers, bench models, etc. What's more, you'll read full details on the most amazing product "insurance" in the entire fastening field — DUO-FAST's famous Free Service Guarantee!

Send today for your FREE DUO-FAST Manual. There's no obligation.

**DUO-FAST / FASTENER CORPORATION**  
3756-66 River Road • Franklin Park, Ill.

Circle No. 70 on Reader Service Card

Continued from page 17

## SPECIFYING DOCK BOARDS

fit even though car doors aren't exactly opposite each other.

**Refrigerator cars**—Reefer cars differ from standard boxcars in two ways: their doors are narrower, and their floors are higher. Although doors will never be less than 48 inches wide, the usable width may be as little as 45 inches when doors are open. Therefore the board should be 44 inches wide where it enters the car.

**Flared boards**—These are used where maneuvering is tight. The amount of flare is practically unlimited, but it's usually not worth while to specify a flare of less than 6 inches on each side. The usual flared board for single-door cars measures 60 inches car end flared to 84 inches dock end, or 70 inches car end flared to 96 inches dock end.

**NOTE:** If a flared board is to be used for both plus and minus height differences, it must be crowned at both ends, since you can't turn it around as you would a rectangular board.

## If you have no dock:

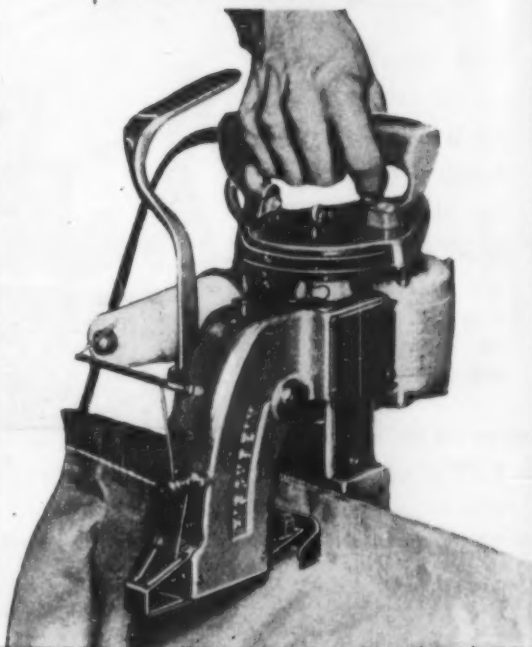
Don't resign yourself to cumbersome loading and unloading methods if you have no dock. There's a valuable piece of equipment designed with you in mind: the yard ramp.

In its simplest form the yard ramp is really an extra-long dock board—long enough to span from vehicle to ground at a reasonable incline. They're usually made of lightweight metals, and have wheels or other provisions for moving around. The most common models are 30 or 36 feet long.

Yard ramps can give you all the advantages of a dock, at a fraction of the cost.

Even if you have an adequate dock, take a look at the advantages of yard ramps. With one of them, you can unload vehicles anywhere on your grounds. Instead of unloading rail cars at a dock then carrying the loads from dock to storage, unload them where the tracks come closest to the storage area. When unloading trucks you can even beat that. Back the trailer right up to the spot where the load has to go, then unload right to that spot. These methods cut out unnecessary handling between dock and storage. And they free the dock for more vital traffic. ▲ ▲

## FISCHBEIN Portable BAG CLOSER



**LOW COST! EFFICIENT! VERSATILE!**

Handles all types of bags. In use all over the world! Total weight only 10½ lbs. Requires no installation . . . plug into any outlet.

Can be used as completely portable unit, suspended with counterbalance, or on conveyor units.

MAIL COUPON  
FOR COMPLETE  
CATALOG FILE  
OF FISCHBEIN  
BAG CLOSING  
EQUIPMENT!



**DAVE FISCHBEIN CO., DEPT. MH**  
2720 30th Avenue South, Minneapolis 6, Minn.

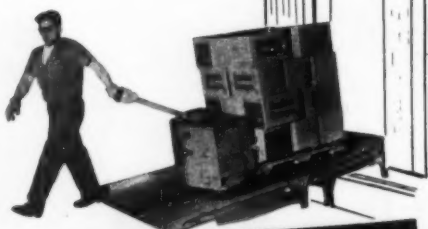
Name \_\_\_\_\_  
Firm Name \_\_\_\_\_  
Address \_\_\_\_\_

Circle No. 71 on Reader Service Card

Circle No. 72 on Reader Service Card



Time saving—smooth flow of traffic from carrier to dock is the first consideration in the design of your LITE-LINE MAGNESIUM DOCK BOARD.



To be sure your magnesium dock boards are exactly suited to your dock requirements, write or phone:

**lite-line**  
MAGNESIUM DOCK EQUIPMENT

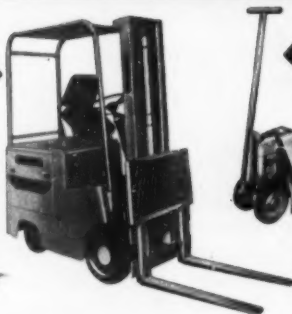
**LITE-LINE METAL INDUSTRIES**

DIVISION OF COPPERLOY CORP. • P. O. BOX 8438, CLEVELAND, OHIO

## BARRETT SYSTEMS

Engineered to your job

Palletier—sit-down, center-control Hi-Lift fork model. Reputation for reliability. Cap., 1000 to 12,000 lb.



Hand pallet truck with advanced features. 2000-, 2500-, 3000-lb. cap.; other models in 4000- and 6000-lb. cap.



Hand and electric portable elevators to stock material "ceiling high"—save valuable floor space for productive operations.

Palletex lift truck with power up and power down. Cap. to 6000 lb.

WRITE FOR DESCRIPTIVE LITERATURE

Whatever your materials handling requirements may be, Barrett can do the job efficiently, economically.

**BARRETT**

Materials handling engineers for half a century

BARRETT-CRAVENS COMPANY  
642 Dundee Road, Northbrook, Illinois  
Representatives in All Principal Cities  
Canadian Licensee: S. A. Armstrong, Ltd.  
Toronto, Canada

Circle No. 73 on Reader Service Card

## HANDLING HIGHLIGHTS

Continued from page 2

### Save 50% On Addressing Costs

High speed stenciling at a savings of 50% for your production line addressing is promised by Diagraph-Bradley Industries. The ink supply in its automatic Rol-Flo stenciler is in the handle. Proper pressure on the squeezable plastic handle keeps the roller saturated and working perfectly at all times. Available in a shipping room supply catalog called "Handy Helper."

Circle No. 58 on Reader Service Card

### Self-Dumping Hopper

Waste handling time can be cut 85% by this self-dumping hopper claims the Roura Iron Works. When the fork truck operator flips the latch the load is dumped automatically. The hopper rights itself, locks itself, and is returned to its station. They fit any standard lift truck and can be used to handle wet or dry, hot or cold bulky materials.

Circle No. 24 on Reader Service Card

### 1001 Time-Saving Ideas In Staple-Tacking Manual

What's new in automatic stapling and tacking? Facts, photos and applications ideas on over 150 Duo-Fast models are presented in this 28-page manual offered by Duo-Fast Fastener Corp. Full details are also given on the company's free service guarantee.

Circle No. 70 on Reader Service Card

### Tote Boxes

Savings in space, time, shipping costs, and money through its "Miracle Tote Box" is promised by The Paige Co. You can obtain full information on the double walled corrugated tote boxes from this company. Double bottom will support all the weight a man can carry. It pulls flat for compact storage when not in use.

Circle No. 63 on Reader Service Card

### Slotted Angle Steel Framing Metal

Cold-rolled galvanized steel for dependable strength and rigidity is made by Acme Steel Co. You can get ideas from their Aim Brand Slotted Angle brochure for fixtures and equipment you can build with less material, and fewer man-hours. Faster framing, precision quality and 100% reuse are three important points of the product.

Circle No. 7 on Reader Service Card

### Pneumatic Or Solid Industrial Tires?

Which tires are right for your job? A free B. F. Goodrich analysis tells you the answer, and can save you up to 50% on industrial tire costs. Your hauling surfaces, equipment, loads and other problems will be studied. The right industrial tires for you to use will be recommended.

Circle No. 6 on Reader Service Card

### 3,000 Lb. Lift Truck

Allis-Chalmers will send full descriptive literature on its FTB30-15 lift truck. Power (full 35 hp and 97 ft.-lb. torque at working speed); maneuverability (outside turning radius is only 64 inches); and gradability (it will climb grades as steep as 40%, loaded); are performance points. Low service costs are also featured.

Circle No. 1 on Reader Service Card

### Drum Cradle And Hand Trucks

Morse Mfg. Co. states that their drum cradle truck assures easy one-man moving for 55 and 110 gallon drums. One man can pick up a thousand pound load and balance it with one finger with the company's drum hand truck. Complete information on both items can be had from Morse.

Circle No. 66 on Reader Service Card

### Wire Partitions

WIPCO woven-steel wire partitions are designed to fit any area, regardless of height, location of doors and other openings. They may be used over and over, salvaging each individual section for use in new erections. Bulletin P-55 from the Wire & Iron Products, Ind. gives full data.

Circle No. 45 on Reader Service Card

### Heavy Equipment Caster

Two inches lower than a standard caster with the same 500 pound load capacity, is the low-slung caster made by the Bassick Co. The three inch diameter wheel caster is designed for heavy business machines and other heavy equipment that needs to be moved only occasionally. Where low overall height is important, this caster raises the load only 4 1/8 inches above the floor.

Circle No. 41 on Reader Service Card

### Nylon-Wheeled Conveyor

A "Cable-Way" conveyor with nylon-wheeled trolleys, requires grease lubrication only on the motor drive and idler sprockets. Made by the American Mono-Rail Co. it handles up to 250 pounds per trolley. The noiseless nylon wheels and easily cleaned open T-rail track and trolleys are among other features.

Circle No. 34 on Reader Service Card

## Silicon Chargers

C & D silicon chargers plug right into standard electrical outlet. If the expense of rewiring has prevented you from taking advantage of modern material handling methods employing battery-electric trucks in the past, this low-cost carrying efficiency fits any size plant, warehouse, or shipping operation. Bulletin AR-100 from C & D Batteries, Inc. describes the silicon chargers, Bulletin IT-527 describes SilverClad batteries.

Circle No. 32 on Reader Service Card

## Woven Wire Slings Provide Safety

No weak links to break . . . no thin strands to snap . . . and no soft core to rot make up the safety story of Gripper woven wire slings made by the Cambridge Wire Cloth Co. Pretested to meet load specifications, they are available in standard lengths and widths with capacities up to 100,000 lbs. Special sizes are also available.

Circle No. 52 on Reader Service Card

## Malleable Chains

Moline malleable chains are subjected to triple testing. First there is link by link gauging and inspection; then pitch testing of "limbered" strands; and finally, stressing, to prove strength and shock testing. Combination, detachable, pintle and ley brushed chains are produced for conveying, elevating, and power transmission.

Circle No. 12 on Reader Service Card

## Handling Cost Cutters

Warehouse and plant cost cutters include electric pallet trucks, hydraulic sheet feeding table, electric walkie stacker, hydraulic skid truck, lightweight hydraulic pallet truck, and the portable hydraulic elevating table. You can obtain information on the ones that meet your interests from the Raymond Corp.

Circle No. 5 on Reader Service Card

## Uncommon Tote Boxes Custom Made

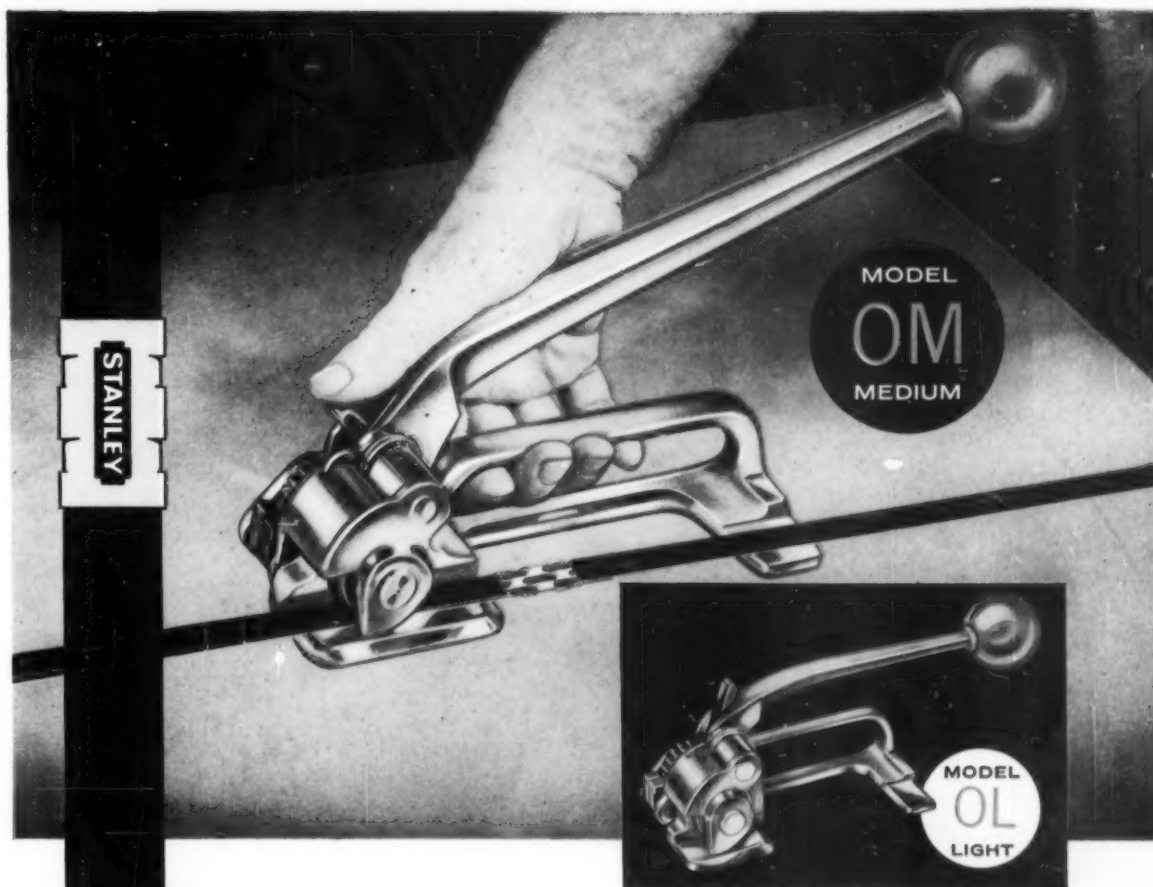
Uncommon carriers are becoming the common answer to material handling problems, states Convoy, Inc. The company makes many standard size tote boxes (nesting, stacking and vertical sided) but they will custom-make any box your product demands.

Circle No. 69 on Reader Service Card

## Ramps and Pallet Stackers

Ramps for a variety of uses are a specialty of the Elizabeth Iron Works, Inc. The company stresses that their all-steel products will not crack or break. Sizes and styles vary, from a 2000 pound capacity hand truck ramp to a 15,000 pound capacity yard ramp.

Circle No. 62 on Reader Service Card



## NEW STANLEY TIGHTENERS

*Versatile...Lightweight...Sturdy-*

The Stanley O Tightener sets a new standard of efficiency for tensioning steel strapping to the required maximum with a manually-operated steel strapping tool with unlimited take-up.

The O Tightener is versatile . . . used to steel strap packages of varying sizes, shapes and weights. Operates with equal ease and speed in any position. Easy to handle, and requiring fewer strokes for take-up, it reduces operator fatigue and saves time. It's a strap-saver too! Applying seals behind tensioning wheel cuts overlap to minimum required for maximum joint security. Tightening action is more positive because there are two holding pawls on tensioning wheel. Removal from strapping is instantaneous. The operator returns tightening lever to down position and slides tool from strapping.

### FEATURES

- Insertion, alignment of strapping is easy, quick.
- Light weight and balance assure handling ease.
- Sturdy construction means long life.
- Has unlimited take-up.
- Seals may be applied in front of or behind tensioning wheel.

MODEL OL 3	3/8" STRAP
OL 4	1/2"
OL 5	5/8"
MODEL OM 5	5/8" STRAP
OM 6	3/4"

For more information, write STANLEY STEEL STRAPPING, Division of The Stanley Works, Dept. A, 1510 Corbin Ave., New Britain, Conn.



AMERICA BUILDS BETTER AND LIVES BETTER WITH STANLEY

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